

# **MEMORANDUM**

TO:

Jim Eddinger, U.S. Environmental Protection Agency, OAQPS (C439-01)

FROM:

Christy Burlew, Eastern Research Group (ERG). Morrisville

DATE:

October 2002

SUBJECT:

Identification of Area Sources in the Industrial, Commercial, and Institutional

Boilers and Process Heaters Databases

# 1.0 INTRODUCTION

This memorandum describes the analysis used to identify and remove area sources in the Industrial. Commercial, and Institutional Boilers and Indirect-fired Process Heaters database used in the development of the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters. The following sections are included within this memorandum:

- 2.0 Background Information
- 3.0 Methodology for Identifying Area Source versus Major Source Boilers
- 4.0 Additional Assumptions
- 5.0 Results

### 2.0 BACKGROUND INFORMATION

Industrial, commercial and institutional boilers and process heaters are used in many different types of facilities including the chemical manufacturing industry, the pulp and paper industry, petroleum industry, furniture manufacturing industry, sugarcane industry, school and

university facilities, municipalities, and many others. The list of Standard Industrial Classification (SIC) codes that are included in the boiler and process heater databases illustrate the many different types of facilities utilizing them (See Appendix A).

Industrial, commercial and institutional boilers and process heaters were identified as source categories of HAP under section 112(c) of the Clean Air Act (the Act), to be regulated by a NESHAP under section 112(d) of the Act. For this NESHAP, the source category was defined to include only units located at major sources. A major source is any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more a year. Area sources are those that do not meet the definition of major source. Boilers located at area sources will be considered in a separate rule-making. The boiler and process heaters database does not indicate which sources are at area or major sources. So additional analysis on the information contained in the database was required in order to remove area sources from subsequent analyses.

# 3.0 METHODOLOGY FOR IDENTIFYING AREA SOURCE VERSUS MAJOR SOURCE BOILERS

The analysis to determine which boilers and process heaters were located at area source facilities was done in a series of steps. Facilities with SIC codes that were assumed to be potential area source SIC codes were identified and then the boilers at these facilities were reviewed against a set of criteria to verify that these facilities were area sources. The sections below discuss this step-by-step analysis in detail.

# 3.1 Data Sources Used for Area Source Analysis

The analysis to identify potential area source facilities and boilers was done using the Inventory Database version 4.1 and the Survey Database version 3.0. For details on the data sources and development of the Inventory version 4.0 and 4.1 database, refer to the memorandum. *Development of the ICCR Inventory Database, Version 4.0 and 4.1* For details on the data sources and development of the Survey version 3.0 database, refer to the

memorandum. Data Entry and Quality Assurance Process in the Formation of the ICCR Survey Database 3.0<sup>2</sup>. For descriptions of the tables and fields in the Inventory database, refer to the memorandum. Description of the ICCR Inventory Database, version 4.0 and 4.1<sup>3</sup>. For descriptions of the tables and fields in the Survey database, refer to the memorandum, Description of Fields in the ICCR Survey Database version 3.0<sup>4</sup>. This area source analysis was conducted on the portion of the Inventory v4.1 database representing fossil fuels and other materials exempt from the ICR questionnaire. For more detail on the portion of the Inventory database that is considered exempt from the ICR questionnaire, refer to the memorandum. Development of the Population Database for the Industrial/Commercial/Institutional Boiler and Process Heaters National Emission Standards for Hazardous Air Pollutants<sup>5</sup>.

# 3.2 Identification of Facilities with Only Area Source SIC Codes

The SIC codes included in the Inventory and Survey databases for boilers and process heaters were reviewed to determine which SIC codes represent facilities that would typically only include area source facilities. This determination was made by considering industries where MACT standards are already in place and those that are planned, previous EPA experience with types of industries with boilers and process heaters, and engineering judgement. Appendix A summarizes all the SIC codes that were included in the Inventory and Survey databases and whether these SIC codes were determined to be area source or major source SIC codes.

The Inventory and the Survey databases both contain SIC codes for many of the facilities included in these databases. However, many facilities in these databases have multiple SIC codes associated with them. The databases were reviewed to identify and flag those facilities which only had SIC codes identified as potential area source SIC codes. Those facilities which had multiple SIC codes that included both potential area source SIC codes and non-area source SIC codes were assumed to contain major sources for the purposes of this analysis. No further review was conducted for facilities that had at least one non-area source SIC. These facilities were automatically included as part of the major source boiler and process heater database.

### 3.3 Review of Individual Boilers at Potential Area Source Facilities

For those facilities that were identified as having only potential area source SIC codes, the boilers located at these facilities were reviewed to determine if the individual boilers would trigger the major source thresholds of 25 tons per year of any combination of HAPs or 10 tons per year of any single HAP. This analysis was done by comparing the minimum size of boilers whose emissions would exceed the thresholds for major source status to the actual capacities of each boiler as indicated by the Inventory or Survey databases. Emissions were calculated using emission factors developed from the emissions database. Development of the emission factors is discussed in another memorandum. Table 3-1 presents the emission factors for total HAP and the largest emitting individual HAP for coal, wood, fuel oil, and gas fired units. Table 3-2 presents the boiler and process heater sizes that would trigger the 10 ton per year individual HAP or 25 ton per year total HAP levels. These minimum size cutoffs are specific to certain fuel types. For instance, the minimum size cutoff for a coal-fired boiler is lower than the minimum major source capacity cutoff for oil-fired boilers. Therefore, before these comparisons were done, the boilers in the databases were sorted according to fuel type so that the correct size cutoffs could be applied. For those facilities that had individual boilers that exceeded the minimum capacity for the fuel type necessary to make that boiler a major source, the entire facility and all the boilers located at that facility were considered to be major sources and were included in the boiler and process heater major source database.

### 3.4 Review of All Boilers at Potential Area Source Facilities

After the review was conducted for individual boilers located at potential area source facilities, the combined emissions from all boilers located at each individual facility were calculated. This analysis was done by reviewing the combined capacity of all the boilers by fuel type to determine if the combination of boilers would cause the facility to be considered a major source for HAP emissions. For instance, a facility with two coal boilers that each had a capacity of 25 MMBtu/hr would be considered a major source because the combination of these two boilers equals the minimum coal-fired boiler capacity necessary to create a major source of emissions. For facilities in which the combination of boilers resulted in emissions greater than

the major source thresholds, those facilities and all the boilers located at those facilities were included in the major source boiler database.

### 3.5 Review of All Combustion Devices at Potential Area Source Facilities

As indicated in the memorandum, Development of the ICCR Inventory Database, Version 4.0 and 4.1<sup>1</sup>, the Inventory database developed under the ICCR included not only boilers but other types of combustion devices such as process heaters, incinerators, internal combustion engines, and turbines. The overall Inventory database was reviewed by facility ID to determine which facilities with boilers also had other types of combustion equipment co-located at the facility. This review was done because the combination of the combustion device equipment could result in emissions that would make the facility as a whole a major source facility. The focus of this analysis was identifying process heaters co-located with boilers at the potential area source facilities because there was relatively complete capacity information available for these units and the minimum size cutoffs for boilers could be applied to the process heaters as well. The incinerators, IC engines, and turbines co-located with boilers were also identified but there were no emission factors or major source size cutoffs available for these types of sources. Therefore, these types of devices were not included in the analysis. As discussed below, it is not expected that these types of sources would have much effect on the outcome of this analysis. Any facilities that had a combination of boilers and process heaters that resulted in combined capacities that would exceed major source thresholds were included in the boiler and process heater major source database.

# 4.0 ADDITIONAL ASSUMPTIONS

In the area source analysis, several assumptions were made for cases in which there was insufficient data to carry out the methodology exactly as described above in Section 3.0. The following sections describe the assumptions and rationale used in the development of the area source analysis.

# 4.1 Emission Factors Used to Calculate HAP Emissions from Other Combustion Devices

When reviewing all combustion devices that were co-located at a potential area source facility some assumptions were necessary to determine the amount of additional emissions created from the other types of combustion equipment besides boilers. For process heaters, the same emission factors and lower-size cutoffs used for boilers were applied to process heaters as well. The ICCR database indicated that there were sometimes engines and turbines present at some of these potential area source facilities. However, the ICCR inventory database listed the capacities of these devices in different units that were not easily converted to the same units as boiler capacities. No additional emissions were attributed to the facilities for these types of combustion devices. It was assumed that since engines and turbines are mostly natural gas-fired that little additional emissions would be created from these devices and they would have little effect on the outcome of this analysis. Also, there were very few potential area sources identified as having engines or turbines. There were also no additional emissions attributed to facilities in which incinerators were co-located with boilers because no emission factors or major source size cutoffs were available for these types of units. Also, it is expected that these units would have little effect on the outcome of this analysis because many of these units are small and there were not many co-located with boilers at the potential area source facilities.

# 4.2 Assumptions for Facilities for Which No SIC Codes Were Available

Initially, any facilities in the Inventory or Survey database for which no SIC codes were available were assumed to be major sources and were included in the major source database. During refinement of the boiler major source database, the estimated fuel consumptions from the major source database were compared to the fuel consumption data reported in the 1994 DOE Manufacturing Fuel Consumption Report, Table A9 (See Appendix B). For some fuel types, particularly fuel oil, this comparison showed that the major source database might include more boilers and facilities than actually exist in the nation. One of the reasons for this result was determined to be that many facilities burning fuel oil and other fossil fuels were those facilities that were initially assumed to be major sources because no SIC information was available. In order to refine the area source determination, the facility names and facility descriptions in the

6

0154-01-01/area sources.wpd

population database were reviewed in an attempt to classify these facilities into certain SIC codes. Any facilities that were identified as falling into one of the potential area source SIC codes were analyzed in the same manner as discussed in Section 3.0. Those facilities that did not have boilers or other combustion devices that would make them a major source were removed from the major source database. During this second analysis, the only facilities removed as area sources were those facilities for which there was enough information to determine that the facility would be included under one of the area source SIC codes. Approximately 1,700 additional boilers assumed to be located at area sources were removed from the major source database as a result of this review.

Assumptions for Boilers with Potential Area Source SICs but No Capacity Information Many of the boilers in the inventory database did not have the capacity information available that was necessary to determine if the boilers were above the lower-size cutoff to be considered a major source by themselves. Also, in some cases, the capacity information available in the database could not be converted to MMBtu/hr units. In these instances, if the facility at which the boiler was located only had potential area source SIC codes, then the boilers and the facility were assumed to be area sources and were removed from the major source database.

# 4.4 Assumptions for Using the SCC for Capacity Information

Many boilers in the Inventory database did not have specific capacity information available in units of MMBtu/hr. However, many of these boilers without capacity information did have Source Classification Codes (SCCs) associated with them in which the SCC description indicates a boiler capacity range, such as 10-100 MMBtu/hr. In these cases, the SCC information from the database was used in the assessment of area sources by using the lower end of the provided range. This assumption was used in order to provide a conservative estimate of a facility's total capacity for the purposes of identifying major sources.

# 4.5 Assumptions for Which Boiler Fuel Type Applied to Co-fired Boilers

Many boilers in the Inventory and Survey databases are co-fired with several different fuel types. However, the area source analysis and the lower-size cutoffs for boilers becoming

7

major sources are based on specific single fuel types. Some assumptions were made regarding which lower-size cutoffs and emission factors applied to these co-fired boilers. Generally, the same hierarchy used to assign boilers to models was used in determining which fuel type was applicable for assessing the lower size cutoffs for major sources. For more detail on the hierarchy of assigning co-fired boilers to models, refer to the memorandum, *Development of Model Units for the Industrial/Commercial/Institutional Boilers and Process Heaters National Emission Standards for Hazardous Air Pollutants* <sup>6</sup>. As an example, the hierarchy results in a boiler burning coal in combination with another material to be reviewed according to the lower size cutoff for a coal-fired boiler. There were a few exceptions for the survey database boilers. The survey database provides information about the percentage fuel input for each co-fired material. For approximately ten boilers that were close to the lower size capacity cutoffs, the percentage fuel input of the coal or oil was 10 percent or less of the total and these boilers were assumed to be area source boilers because the majority of fuel input was natural gas.

# 5.0 RESULTS

The step-by-step analysis to identify area sources described in this memo resulted in the identification of approximately 23,000 boilers assumed to be located at area source facilities. These boilers were removed from the major source database used for subsequent analysis for the Industrial, Commercial, and Institutional Boiler and Process Heater NESHAP. For further description of the major source database, refer to the memorandum *Development of the Population Database for the Industrial/Commercial/Institutional Boilers and Process Heaters National Emission Standards for Hazardous Air Pollutants*<sup>3</sup>.

8

### 6.0 REFERENCES

- 1. Stephanie Finn and Jason Huckaby, ERG. Memorandum to Fred Porter, Bill Maxwell, and Jim Eddinger, U.S. Environmental Protection Agency, OAQPS. *Development of the ICCR Inventory Database, Version 4.0 and 4.1.* September 9, 1999.
- 2. Stephanie Finn and Linda Fuller, ERG. Memorandum to Fred Porter and Jim Eddinger, U.S. Environmental Protection Agency, OAQPS. Data Entry and Quality Assurance Process in the Formation of the ICCR Survey Database 3.0. September 13, 1999.
- 3. Jeanette Alvis, ERG. Memorandum to Bill Maxwell and Fred Porter, U.S. Environmental Protection Agency, OAQPS. *Description of the ICCR Inventory Database, Versions 4.0 and 4.1.* September 3, 1999.
- 4. David Rhodes. ERG. Memorandum to Fred Porter and Jim Eddinger, U.S. Environmental Protection Agency, OAQPS. *Description of Fields in the ICCR Survey Database Version 3.0.* September 8, 1999.
- 5. Jeanette Alvis and Christy Burlew, ERG. Memorandum to Jim Eddinger, U.S. Environmental Protection Agency, OAQPS. Development of the Population Database for the Industrial/ Commercial/Institutional Boilers and Process Heaters National Emission Standards for Hazardous Air Pollutants. October, 2002.
- 6. Jeanette Alvis, Christy Burlew, and Roy Oommen, ERG. Memorandum to Jim Eddinger, U.S. Environmental Protection Agency, OAQPS. Development of Model Units for the Industrial/Commercial/Institutional Boilers and Process Heaters National Emission Standards for Hazardous Air Pollutants. October, 2002.

Table 3-1. Emission Factors Used to Determine Total Combined HAP Emissions from Multiple Units at a Facility to Identify Major Sources

Unit Type	Fuel Type	Pollutant	Emission Factor (lb/MMBtu capacity)
Boiler or Process Heater	Coal	Total HAP Emissions	0.56
Boiler or Process Heater	Coal	Hydrogen Chloride	0.54
Boiler or Process Heater	Wood	Total HAP Emissions	0.02
Boiler or Process Heater	Wood	Formaldehy de	0.01
Boiler or Process Heater	Fuel Oil	Total HAP Emissions	0.004
Boiler or Process Heater	Fuel Oil	Manganese	0.0000005
Boiler or Process Heater	Natural Gas	Total HAP Emissions	0.0004
Boiler or Process Heater	Natural Gas	Formaldehyde	0.0003

Table 3-2. Size Cutoffs Used to Determine Single Units that Exceed Major Source Thresholds

Unit Type	Fuel Type	Major Source Threshold
Boiler or Process Heater	Coal	heat input capacity >/= 50 MMBttu/hr considered a major source
Boiler or Process Heater	Wood	heat input capacity >/= 250 MMBtu/hr considered a major source
Boiler or Process Heater	Fuel Oil	heat input capacity >/= 1,800 MMBtu/hr considered a major source
Boiler or Process Heater	Natural Gas	heat input capacity >/= 8,000 MMBtu/hr considered a major source

# Appendix A

# Identification of SIC Codes for Boilers at Area Sources

(See Excel spreadsheet "Areamemappa-SIC.xls")

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source Status

		# 2 P T T T
SIC		Area
Code	SIC Description	Source?
0133	Agricultural Production - Crops, Field Crops, except Cash Grains, Sugarcane and sugar beets	X
0173	Agricultural Production - Crops, Fruits and Tree Nuts, Tree nuts	X
0181	Agricultural Production - Crops, Horticultural Specialties, Ornamental nursery products	Χ
1002		
	Metal Mining, Iron Ores, Iron ores	
	Metal Mining, Copper Ores, Copper ores	
	Metal Mining, Lead and Zinc Ores, Lead and zinc ores	
1041	Metal Mining, Gold and Silver Ores, Gold ores	
1061	Metal Mining, Ferroalloy Ores, Except Vanadium, Ferroalloy ores, except vanadium	
1081	Metal Mining, Metal Mining Services, Metal mining services	
1094	Metal Mining, Miscellaneous Metal Ores, Uranium-radium-vanadium ores	
1099	Metal Mining, Miscellaneous Metal Ores, Metal ores, nec	]
1211	Coal Mining	
1221	Coal Mining, Bituminous Coal and Lignite Mining, Bituminous coal and lignitesurface	
1222	Coal Mining, Bituminous Coal and Lignite Mining, Bituminous coalunderground	
1225	Coal Mining	
1231	Coal Mining, Anthracite Mining, Anthracite mining	
1311	Oil And Gas Extraction, Crude Petroleum And Natural Gas, Crude petroleum and natural gas	1
1320	Oil And Gas Extraction	.
1321	Oil And Gas Extraction, Natural Gas Liquids, Natural gas liquids	].
1322	Oil And Gas Extraction	
1381	Oil And Gas Extraction, Oil and Gas Field Services, Drilling oil and gas wells	
1382	Oil And Gas Extraction, Oil and Gas Field Services, Oil and gas exploration services	
1389	Oil And Gas Extraction, Oil and Gas Field Services, Oil and gas field services, nec	
1411	Nonmetailic Minerals, Except Fuels, Dimension Stone, Dimension stone	X
1422	Nonmetallic Minerals, Except Fuels, Crushed and Broken Stone, Crushed and broken limestone	x
1429	Nonmetallic Minerals, Except Fuels, Crushed and Broken Stone, Crushed and broken stone, nec	x
	Nonmetallic Minerals, Except Fuels, Sand and Gravel, Construction sand and gravel	^-
1446	Nonmetallic Minerals, Except Fuels, Sand and Gravel, Industrial sand	<b>+</b> ^
	Nonmetallic Minerals	
1455	Nonmetallic Minerals, Except Fuels, Clay, Ceramic, & Refractory Minerals, Kaolin and ball clay	
	Nonmetallic Minerals, Except Fuels, Clay, Ceramic, & Refractory Minerals, Clay and related minerals, nec Nonmetallic Minerals, Except Fuels, Chemical and Fertilizer Minerals, Potash, soda, and borate minerals	<u> </u>
	Nonmetallic Minerals, Except Fuels, Chemical and Fertilizer Minerals, Potash, soda, and borate minerals  Nonmetallic Minerals, Except Fuels, Chemical and Fertilizer Minerals, Phosphate rock	
1475	Nonmetallic Minerals  Nonmetallic Minerals	<b>!</b> ·
1477	Nonmetalic Minerals	ŀ
1479	Nonmetallic Minerals, Except Fuels, Chemical and Fertilizer Minerals, Chemical and fertilizer mining, nec	<b> </b>
	Nonmetallic Minerals, Except Fuels, Miscellaneous Nonmetallic Minerals, Miscellaneous nonmetallic minerals	t · · ·
	General Building Contractors, Nonresidential Building Construction, Industrial buildings and warehouses	X
	General Building Contractors, Nonresidential Building Construction, Nonresidential construction, nec	X
	Heavy Construction, Ex. Building, Highway and Street Construction, Highway and street construction	X
1622	Heavy Construction, Ex. Building, Heavy Construction, except Highway, Bridge, tunnel, & elevated highway	X
1623	Heavy Construction, Ex. Building, Heavy Construction, except Highway, Water, sewer, and utility lines	X
	Heavy Construction, Ex. Building, Heavy Construction, except Highway, Heavy construction, nec	X
	Special Trade Contractors, Painting and Paper Hanging, Painting and paper hanging	X
1741	Special Trade Contractors, Masonry, Stonework, and Plastering, Masonry and other stone work	X
1794	Special Trade Contractors, Misc. Special Trade Contractors, Excavation work	X
1796	Special Trade Contractors, Misc. Special Trade Contractors, Installing building equipment, nec	X
1799	Special Trade Contractors, Misc. Special Trade Contractors, Special trade contractors, nec	X
20	Food And Kindred Products	X
2000	Food And Kindred Products	X
13	Food And Kindred Products	X
2011	Food And Kindred Products, Meat Products, Meat packing plants	X
16	Food And Kindred Products, Meat Products, Sausages and other prepared meats	) X
11	Food And Kindred Products, Meat Products, Poultry slaughtering and processing	X
11	Food And Kindred Products	X
11	Food And Kindred Products	X
11	Food And Kindred Products  Food And Kindred Products  From Products  From Products	X
2021	Food And Kindred Products, Dairy Products, Creamery butter	X
	Food And Kindred Products, Dairy Products, Cheese, natural and processed	
	Food And Kindred Products, Dairy Products, Dry, condensed, evaporated products Food And Kindred Products, Dairy Products, Ice cream and frozen desserts	X
	Food And Kindred Products, Dairy Products, Fluid milk Food And Kindred Products, Preserved Fruits and Vegetables, Canned specialties	- X
	Food And Kindred Products, Preserved Fruits and Vegetables, Canned fruits and vegetables	} <b>^</b> -
	Food And Kindred Products, Preserved Truits and Vegetables, Cambe truits and Vegetables Food And Kindred Products, Preserved Fruits and Vegetables, Dehydrated fruits, vegetables, soups	x
	Food And Kindred Products, Preserved Truits and Vegetables, Denytrated Truits, Vegetables, soups  Food And Kindred Products, Preserved Fruits and Vegetables, Pickles, sauces, and salad dressings	- <del>2</del>
	Food And Kindred Products, Preserved Fruits and Vegetables, Frozen fruits and vegetables	x -
11 200,	1. and the contract of the con	

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source Status

	。 一	THE WILLIAM	
SIC	C10 D		Area
2038	SIC Description Food And Kindred Products, Preserved Fruits and Vegetables, Frozen specialties, nec		Source?
	Food And Kindred Products, Preserved Fibilis and Vegetables, Frozen specialities, net		x
	Food And Kindred Products		- x
11	Food And Kindred Products, Grain Mill Products, Cereal breakfast foods		Х
2044	Food And Kindred Products, Grain Mill Products, Rice milling	-	X
	Food And Kindred Products, Grain Mill Products, Prepared flour mixes and doughs		X
	Food And Kindred Products, Grain Mill Products, Wet corn milling		X
	Food And Kindred Products, Grain Mill Products, Dog and cat food		X
13	Food And Kindred Products, Grain Mill Products, Prepared feeds, nec Food And Kindred Products		x
*1	Food And Kindred Products, Bakery Products, Bread, cake, and related products		x
2052	Food And Kindred Products, Bakery Products, Cookies and crackers		X
2053	Food And Kindred Products, Bakery Products, Frozen bakery products, except bread		Х
	Food And Kindred Products, Sugar and Confectionery Products, Raw cane sugar		_ X
	Food And Kindred Products, Sugar and Confectionery Products, Cane sugar refining		_ X
	Food And Kindred Products, Sugar and Confectionery Products, Beet sugar	_	X
11	Food And Kindred Products, Sugar and Confectionery Products, Candy & other confectionery products. Food And Kindred Products	5	x
	Food And Kindred Products, Sugar and Confectionery Products, Chocolate & cocoa products		Î
,,	Food And Kindred Products, Sugar and Confectionery Products, Chewing gum		x
	Food And Kindred Products, Sugar and Confectionery Products, Salted & roasted nuts & seeds		X
2074	Food And Kindred Products, Fats and Oils, Cottonseed oil mills	=	ļ l
	Food And Kindred Products, Fats and Oils, Soybean oil mills		L
	Food And Kindred Products, Fats and Oils, Vegetable oil mills, nec Food And Kindred Products, Fats and Oils, Animal and marine fats and oils		
	Food And Kindred Products, Fats and Oils, Edible fats and oils, nec		
	Food And Kindred Products, Pals and Oils, Edible rats and Oils, Nec		×
2083	Food And Kindred Products, Beverages, Malt		X
	Food And Kindred Products, Beverages, Wines, brandy, and brandy spirits		X
	Food And Kindred Products, Beverages, Distilled and blended liquors		X
	Food And Kindred Products, Beverages, Bottled and canned soft drinks		X
	Food And Kindred Products, Beverages, Flavoring extracts and syrups, nec Food And Kindred Products, Misc. Food and Kindred Products, Canned and cured fish and seafoods		X
	Food And Kindred Products, Misc. Food and Kindred Products, Canned and cured his and searoods  Food And Kindred Products, Misc. Food and Kindred Products, Fresh or frozen prepared fish		- â
51	Food And Kindred Products		X
2095	Food And Kindred Products, Misc. Food and Kindred Products, Roasted coffee		X
	Food And Kindred Products, Misc. Food and Kindred Products, Potato chips and similar snacks		Х
	Food And Kindred Products, Misc. Food and Kindred Products, Manufactured ice		- <u>X</u> -
	Food And Kindred Products, Misc. Food and Kindred Products, Macaroni and spaghetti Food And Kindred Products, Misc. Food and Kindred Products, Food preparations, nec		- ·
	Tobacco Products, Cigarettes, Cigarettes		
	Tobacco Products, Cigars, Cigars		
	Tobacco Products, Chewing and Smoking Tobacco, Chewing and smoking tobacco		l
	Tobacco Products		
	Tobacco Products, Tobacco Stemming And Redrying, Tobacco stemming and redrying		
	Textile Mill Products, Broadwoven Fabric Mills, Cotton, Broadwoven fabric mills, cotton		
	Textile Mill Products, Broadwoven Fabric Mills, Manmade, Broadwoven fabric mills, manmade Textile Mill Products, Broadwoven Fabric Mills, Wool, Broadwoven fabric mills, wool		
2231	Textile Mill Products, Narrow Fabric Mills, Narrow fabric mills		··
2251	Textile Mill Products, Knitting Mills, Women's hosiery, except socks		ļ · ·
2252			1
	Textile Mill Products, Knitting Mills, Hosiery, nec		[ ]
2253	Textile Mill Products, Knitting Mills, Knit outerwear mills		
2254	Textile Mill Products, Knitting Mills, Knit outerwear mills Textile Mill Products, Knitting Mills, Knit underwear mills		
2254 2257	Textile Mill Products, Knitting Mills, Knit outerwear mills Textile Mill Products, Knitting Mills, Knit underwear mills Textile Mill Products, Knitting Mills, Weft knit fabric mills		
2254 2257 2258	Textile Mill Products, Knitting Mills, Knit outerwear mills Textile Mill Products, Knitting Mills, Knit underwear mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Lace and warp knit fabric mills		
2254 2257 2258 2259	Textile Mill Products, Knitting Mills, Knit outerwear mills Textile Mill Products, Knitting Mills, Knit underwear mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Lace and warp knit fabric mills Textile Mill Products, Knitting Mills, Knitting mills, nec		
2254 2257 2258	Textile Mill Products, Knitting Mills, Knit outerwear mills Textile Mill Products, Knitting Mills, Knit underwear mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Lace and warp knit fabric mills		
2254 2257 2258 2259 2261	Textile Mill Products, Knitting Mills, Knit outerwear mills Textile Mill Products, Knitting Mills, Knit underwear mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Lace and warp knit fabric mills Textile Mill Products, Knitting Mills, Knitting mills, nec Textile Mill Products, Textile Finishing, except Wool, Finishing plants, cotton		
2254 2257 2258 2259 2261 2262 2269 2271	Textile Mill Products, Knitting Mills, Knit outerwear mills Textile Mill Products, Knitting Mills, Knit underwear mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Lace and warp knit fabric mills Textile Mill Products, Knitting Mills, Knitting mills, nec Textile Mill Products, Textile Finishing, except Wool, Finishing plants, cotton Textile Mill Products, Textile Finishing, except Wool, Finishing plants, manmade Textile Mill Products, Textile Finishing, except Wool, Finishing plants, nec Textile Mill Products		
2254 2257 2258 2259 2261 2262 2269 2271 2272	Textile Mill Products, Knitting Mills, Knit outerwear mills Textile Mill Products, Knitting Mills, Knit underwear mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Lace and warp knit fabric mills Textile Mill Products, Knitting Mills, Knitting mills, nec Textile Mill Products, Textile Finishing, except Wool, Finishing plants, cotton Textile Mill Products, Textile Finishing, except Wool, Finishing plants, manmade Textile Mill Products, Textile Finishing, except Wool, Finishing plants, nec Textile Mill Products Textile Mill Products Textile Mill Products		
2254 2257 2258 2259 2261 2262 2269 2271 2272 2273	Textile Mill Products, Knitting Mills, Knit outerwear mills Textile Mill Products, Knitting Mills, Knit underwear mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Knitting mills, nec Textile Mill Products, Textile Finishing, except Wool, Finishing plants, cotton Textile Mill Products, Textile Finishing, except Wool, Finishing plants, manmade Textile Mill Products, Textile Finishing, except Wool, Finishing plants, nec Textile Mill Products Textile Mill Products Textile Mill Products, Carpets and Rugs, Carpets and rugs		
2254 2257 2258 2259 2261 2262 2269 2271 2272 2273 2281	Textile Mill Products, Knitting Mills, Knit outerwear mills Textile Mill Products, Knitting Mills, Knit underwear mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Lace and warp knit fabric mills Textile Mill Products, Knitting Mills, Knitting mills, nec Textile Mill Products, Textile Finishing, except Wool, Finishing plants, cotton Textile Mill Products, Textile Finishing, except Wool, Finishing plants, manmade Textile Mill Products, Textile Finishing, except Wool, Finishing plants, nec Textile Mill Products Textile Mill Products Textile Mill Products, Carpets and Rugs, Carpets and rugs Textile Mill Products, Yarn and Thread Mills, Yarn spinning mills		
2254 2257 2258 2259 2261 2262 2269 2271 2272 2273 2281 2282	Textile Mill Products, Knitting Mills, Knit outerwear mills Textile Mill Products, Knitting Mills, Knit underwear mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Weft knit fabric mills Textile Mill Products, Knitting Mills, Knitting mills, nec Textile Mill Products, Textile Finishing, except Wool, Finishing plants, cotton Textile Mill Products, Textile Finishing, except Wool, Finishing plants, manmade Textile Mill Products, Textile Finishing, except Wool, Finishing plants, nec Textile Mill Products Textile Mill Products Textile Mill Products, Carpets and Rugs, Carpets and rugs		
2254 2257 2258 2259 2261 2262 2269 2271 2272 2273 2281 2282 2283 2284	Textile Mill Products, Knitting Mills, Knit outerwear mills  Textile Mill Products, Knitting Mills, Knit underwear mills  Textile Mill Products, Knitting Mills, Weft knit fabric mills  Textile Mill Products, Knitting Mills, Lace and warp knit fabric mills  Textile Mill Products, Knitting Mills, Knitting mills, nec  Textile Mill Products, Textile Finishing, except Wool, Finishing plants, cotton  Textile Mill Products, Textile Finishing, except Wool, Finishing plants, manmade  Textile Mill Products, Textile Finishing, except Wool, Finishing plants, nec  Textile Mill Products  Textile Mill Products  Textile Mill Products, Carpets and Rugs, Carpets and rugs  Textile Mill Products, Yarn and Thread Mills, Yarn spinning mills  Textile Mill Products, Yarn and Thread Mills, Throwing and winding mills  Textile Mill Products, Yarn and Thread Mills, Thread mills		
2254 2257 2258 2259 2261 2262 2269 2271 2272 2273 2281 2282 2283 2284 2291	Textile Mill Products, Knitting Mills, Knit outerwear mills  Textile Mill Products, Knitting Mills, Knit underwear mills  Textile Mill Products, Knitting Mills, Weft knit fabric mills  Textile Mill Products, Knitting Mills, Lace and warp knit fabric mills  Textile Mill Products, Knitting Mills, Knitting mills, nec  Textile Mill Products, Textile Finishing, except Wool, Finishing plants, cotton  Textile Mill Products, Textile Finishing, except Wool, Finishing plants, manmade  Textile Mill Products, Textile Finishing, except Wool, Finishing plants, nec  Textile Mill Products  Textile Mill Products  Textile Mill Products, Carpets and Rugs, Carpets and rugs  Textile Mill Products, Yarn and Thread Mills, Yarn spinning mills  Textile Mill Products  Textile Mill Products  Textile Mill Products, Yarn and Thread Mills, Throwing and winding mills		

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source Status

		marchine de la companya de la compan
SIC		Area
11	SIC Description	and the second
Code	31C Description	Source?
2295	Textile Mill Products, Miscellaneous Textile Goods, Coated fabrics, not rubberized	
2296	Textile Mill Products, Miscellaneous Textile Goods, Tire cord and fabrics	_
2297	Textile Mill Products, Miscellaneous Textile Goods, Nonwoven fabrics	_
2298	Textile Mill Products, Miscellaneous Textile Goods, Cordage and twine	
2299	Textile Mill Products, Miscellaneous Textile Goods, Textile goods, nec	
16	Apparel And Other Textile Products, Men's and Boys' Suits and Coats, Men's & boys' suits & coats	X
2311		
2313	Apparel And Other Textile Products	
2321	Apparel And Other Textile Products, Men's and Boys' Furnishings, Men's & boys' shirts	. Х
2322	Apparel And Other Textile Products, Men's and Boys' Furnishings, Men's & boys' underwear & nightwear	Х
2325	Apparel And Other Textile Products, Men's and Boys' Furnishings, Men's & boys' trousers & slacks	X
2326	Apparel And Other Textile Products, Men's and Boys' Furnishings, Men's & boys' work clothing	X
2327	Apparel And Other Textile Products	X
2328	Apparel And Other Textile Products	X
	Apparel And Other Textile Products, Men's and Boys' Furnishings, Men's & boys' clothing, nec	x
2329	Apparel And Other Textile Products, Men's and boys Furnishings, Men's & boys Clothing, het	<u>^</u> -
	Apparel And Other Textile Products, Women's and Misses' Outerwear, Women's & misses' blouses & shirts	3
	Apparel And Other Textile Products, Women's and Misses' Outerwear, Women's, & misses' dresses	X
2337	Apparel And Other Textile Products, Women's and Misses' Outerwear, Women's & misses' suits and coats	X
2339	Apparel And Other Textile Products, Women's and Misses' Outerwear, Women's & misses' outerwear, nec	X
	Apparel And Other Textile Products, Women's and Children's Undergarments, Women's and children's underwear	X
	Apparel And Other Textile Products, Women's and Children's Undergarments, Bras, girdles, and allied garments	X
	Apparel And Other Textile Products	x
		x
11	Apparel And Other Textile Products, Hats, Caps, and Millinery, Hats, caps, and millinery	
2361	Apparel And Other Textile Products, Girls' and Children's Outerwear, Girls' & children's dresses, blouses	X
15	Apparel And Other Textile Products, Girls' and Children's Outerwear, Girls' & children's outerwear, nec	X
2371	Apparel And Other Textile Products, Fur Goods, Fur goods	Х
2384	Apparel And Other Textile Products, Miscellaneous Apparel and Accessories, Robes and dressing gowns	X
2388	Apparel And Other Textile Products	Х
2389	Apparel And Other Textile Products, Miscellaneous Apparel and Accessories, Apparel and accessories, nec	X
2391	Apparel And Other Textile Products, Misc. Fabricated Textile Products, Curtains and draperies	X
	Apparel And Other Textile Products, Misc. Fabricated Textile Products, Housefurnishings, nec	X
2393	Apparel And Other Textile Products, Misc. Fabricated Textile Products, Touseld Histings, Nec	- x
11		x
2394	Apparel And Other Textile Products, Misc. Fabricated Textile Products, Canvas and related products	
2396	Apparel And Other Textile Products, Misc. Fabricated Textile Products, Automotive and apparel trimmings	X
2399	Apparel And Other Textile Products, Misc. Fabricated Textile Products, Fabricated textile products, nec	X
24	Lumber And Wood Products	Х
2400	Lumber And Wood Products	X
2411	Lumber And Wood Products, Logging, Logging	Χ
2415	Lumber And Wood Products	X
242	Lumber And Wood Products, Sawmills and Planing Mills	X
2420	Lumber And Wood Products	Х
	Lumber And Wood Products, Sawmills and Planing Mills, Sawmills & planing mills, general	X
11		
	· · · · · · · · · · · · · · · · · · ·	
2430	Lumber And Wood Products	
11	Lumber And Wood Products, Millwork, Plywood & Structural Members, Millwork	L _
2432	Lumber And Wood Products	
2434	Lumber And Wood Products, Millwork, Plywood & Structural Members, Wood kitchen cabinets	
2435	Lumber And Wood Products, Millwork, Plywood & Structural Members, Hardwood veneer and plywood	
2436	Lumber And Wood Products, Millwork, Plywood & Structural Members, Softwood veneer and plywood	
2439	Lumber And Wood Products, Millwork, Plywood & Structural Members, Structural wood members, nec	
2440	Lumber And Wood Products	
2441	Lumber And Wood Products Lumber And Wood Products, Wood Containers, Nailed wood boxes and shook	
13	ILLUMBEL AND MOOD FLOUDED, MOOD COMBINES, MAILED WOOD DUKES AND SHOOK	
11 7440	Lumber And Wood Products, Wood Containers, Wood pullete and skide	
2448	Lumber And Wood Products, Wood Containers, Wood pallets and skids	
2449	Lumber And Wood Products, Wood Containers, Wood containers, nec	 -
2449 2451	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes	
2449 2451 2452	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings	
2449 2451 2452 2491	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving	
2449 2451 2452 2491	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving	
2449 2451 2452 2491	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving	
2449 2451 2452 2491 2492 2493	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Reconstituted wood products	
2449 2451 2452 2491 2492 2493 2498	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Reconstituted wood products Lumber And Wood Products	
2449 2451 2452 2491 2492 2493 2498 2499	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Reconstituted wood products Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Wood products, nec	
2449 2451 2452 2491 2492 2493 2498 2499 25	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Reconstituted wood products Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Wood products, nec Furniture And Fixtures	
2449 2451 2452 2491 2492 2493 2498 2499 25 2500	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving Lumber And Wood Products, Miscellaneous Wood Products, Reconstituted wood products Lumber And Wood Products Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Wood products, nec Furniture And Fixtures Furniture And Fixtures	
2449 2451 2452 2491 2492 2493 2498 2499 25 2500 2511	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Reconstituted wood products Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Wood products, nec Furniture And Fixtures Furniture And Fixtures Furniture And Fixtures, Household Furniture, Wood household furniture	
2449 2451 2452 2491 2492 2493 2498 2499 25 2500 2511 2512	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Reconstituted wood products Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Wood products, nec Furniture And Fixtures Furniture And Fixtures Furniture And Fixtures, Household Furniture, Wood household furniture Furniture And Fixtures, Household Furniture, Upholstered household furniture	
2449 2451 2452 2491 2492 2493 2498 2499 25 2500 2511 2512 2514	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Reconstituted wood products Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Wood products, nec Furniture And Fixtures Furniture And Fixtures Furniture And Fixtures, Household Furniture, Wood household furniture Furniture And Fixtures, Household Furniture, Upholstered household furniture Furniture And Fixtures, Household Furniture, Metal household furniture	-
2449 2451 2452 2491 2492 2493 2498 2499 25 2500 2511 2512 2514	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving Lumber And Wood Products, Miscellaneous Wood Products, Reconstituted wood products Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Wood products, nec Furniture And Fixtures Furniture And Fixtures Furniture And Fixtures, Household Furniture, Wood household furniture Furniture And Fixtures, Household Furniture, Upholstered household furniture Furniture And Fixtures, Household Furniture, Metal household furniture Furniture And Fixtures, Household Furniture, Mattresses and bedsprings	
2449 2451 2452 2491 2492 2493 2498 2499 25 2500 2511 2512 2514	Lumber And Wood Products, Wood Containers, Wood containers, nec Lumber And Wood Products, Wood Buildings and Mobile Homes, Mobile homes Lumber And Wood Products, Wood Buildings and Mobile Homes, Prefabricated wood buildings Lumber And Wood Products, Miscellaneous Wood Products, Wood preserving Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Reconstituted wood products Lumber And Wood Products Lumber And Wood Products, Miscellaneous Wood Products, Wood products, nec Furniture And Fixtures Furniture And Fixtures Furniture And Fixtures, Household Furniture, Wood household furniture Furniture And Fixtures, Household Furniture, Upholstered household furniture Furniture And Fixtures, Household Furniture, Metal household furniture	

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source

		A Trans
SIC		Area
Code	SIC Description  Furniture And Fixtures, Household Furniture, Household furniture, nec	Source?
	Furniture And Fixtures, Office Furniture, Wood office furniture	
13	Furniture And Fixtures, Office Furniture, Office furniture, except wood	
	Furniture And Fixtures, Public Building & Related Furniture, Public building & related furniture	
	Furniture And Fixtures	
	Furniture And Fixtures, Partitions and Fixtures, Wood partitions and fixtures	
	Furniture And Fixtures, Partitions and Fixtures, Partitions and fixtures, except wood	ļ
! 3	Furniture And Fixtures, Miscellaneous Furniture and Fixtures, Drapery hardware, blinds and shades	
2592	Furniture And Fixtures Furniture And Fixtures, Miscellaneous Furniture and Fixtures, Furniture and fixtures, nec	
26	Paper And Allied Products	
2611	Paper And Allied Products, Pulp Mills, Pulp mills	i :- i
	Paper And Allied Products	
	Paper And Allied Products, Paper Mills, Paper mills	
11	Paper And Allied Products, Paperboard Mills, Paperboard mills	
13	Paper And Allied Products	
2642 2643	Paper And Allied Products Paper And Allied Products	
11	Paper And Allied Products	
2647		
l t	Paper And Allied Products	
2649	Paper And Allied Products	
2651	Paper And Allied Products	L
2652	Paper And Allied Products, Paperboard Containers and Boxes, Setup paperboard boxes	
2653 2654	Paper And Allied Products, Paperboard Containers and Boxes, Corrugated & solid fiber boxes Paper And Allied Products	
2655	Paper And Allied Products Paper And Allied Products, Paperboard Containers and Boxes, Fiber cans, drums & similar products	
2656	Paper And Allied Products, Paperboard Containers and Boxes, Sanitary food containers	
2657	Paper And Allied Products, Paperboard Containers and Boxes, Folding paperboard boxes	
2661	Paper And Allied Products	
2671	Paper And Allied Products, Misc. Converted Paper Products, Paper coated & laminated, packaging	ļ ļ
2672	Paper And Allied Products, Misc. Converted Paper Products, Paper coated & laminated, nec	
2673 2674	Paper And Allied Products, Misc. Converted Paper Products, Bags: plastics, laminated, & coated Paper And Allied Products, Misc. Converted Paper Products, Bags: uncoated paper & multiwall	
2675	Paper And Allied Products, Misc. Converted Paper Products, Die-cut paper & board	
2676	Paper And Allied Products, Misc. Converted Paper Products, Sanitary paper products	
2677	Paper And Allied Products, Misc. Converted Paper Products, Envelopes	
2679	Paper And Allied Products, Misc. Converted Paper Products, Converted paper products, nec	
2681	Paper And Allied Products	
2700 2710	Printing And Publishing	
2710	Printing And Publishing Printing And Publishing, Newspapers, Newspapers	
1	Printing And Publishing, Periodicals, Periodicals	
273	Printing And Publishing, Books	
2731	Printing And Publishing, Books, Book publishing	
2732	Printing And Publishing, Books, Book printing	
	Printing And Publishing, Miscellaneous Publishing, Miscellaneous publishing	
	Printing And Publishing	
2751	Printing And Publishing Printing And Publishing, Commercial Printing, Commercial printing, lithographic	f-
2754	Printing And Publishing, Commercial Printing, Commercial printing, gravure	-
2759	Printing And Publishing, Commercial Printing, Commercial printing, nec	1 - 1
15	Printing And Publishing, Manifold Business Forms, Manifold business forms	
2771	Printing And Publishing, Greeting Cards, Greeting cards	L
2782		ļ. <b></b>
	Printing And Publishing, Printing Trade Services, Platemaking services	
2800	Chemicals And Allied Products	
2812	Chemicals And Allied Products, Industrial Inorganic Chemicals, Alkalies and chlorine	
2813	Chemicals And Allied Products, Industrial Inorganic Chemicals, Industrial gases	
"	ļ	•
		-
	Chemicals And Allied Products, Plastics Materials and Synthetics, Cellulosic manmade fibers	
	Chemicals And Allied Products, Plastics Materials and Synthetics, Organic fibers, noncellulosic	
2789 2791 2795 2796 2800 2812 2813 2816 2819 2821 2822 2823	Chemicals And Allied Products Chemicals And Allied Products, Industrial Inorganic Chemicals, Alkalies and chlorine Chemicals And Allied Products, Industrial Inorganic Chemicals, Industrial gases Chemicals And Allied Products, Industrial Inorganic Chemicals, Inorganic pigments Chemicals And Allied Products, Industrial Inorganic Chemicals, Industrial inorganic chemicals, nec Chemicals And Allied Products, Plastics Materials and Synthetics, Plastics materials and resins Chemicals And Allied Products, Plastics Materials and Synthetics, Synthetic rubber Chemicals And Allied Products, Plastics Materials and Synthetics, Cellulosic manmade fibers	

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source Status

CTC		Area
SIC Code	SIC Description	Source
	Chemicals And Allied Products	
2833	Chemicals And Allied Products, Drugs, Medicinals and botanicals	
	Chemicals And Allied Products, Drugs, Pharmaceutical preparations	
	Chemicals And Allied Products, Drugs, Diagnostic substances	
2836	Chemicals And Allied Products, Drugs, Biological products exc. diagnostic	-
2841 2842	Chemicals And Allied Products, Soap, Cleaners, and Toilet Goods, Soap and other detergents Chemicals And Allied Products, Soap, Cleaners, and Toilet Goods, Polishes and sanitation goods	
2843	Chemicals And Allied Products, Soap, Cleaners, and Toilet Goods, Surface active agents	ļ
2844	Chemicals And Allied Products, Soap, Cleaners, and Toilet Goods, Toilet preparations	İ
2851	Chemicals And Allied Products, Paints and Allied Products, Paints and allied products	[
2861	Chemicals And Allied Products, Industrial Organic Chemicals, Gum and wood chemicals	
2864	Chemicals And Allied Products	
2865	Chemicals And Allied Products, Industrial Organic Chemicals, Cyclic crudes and intermediates Chemicals And Allied Products, Industrial Organic Chemicals, Industrial organic chemicals, nec	
2869 2873	Chemicals And Allied Products, Industrial Organic Chemicals, Industrial organic Chemicals, Nec	
2874	Chemicals And Allied Products, Agricultural Chemicals, Phosphatic fertilizers	
2875	Chemicals And Allied Products, Agricultural Chemicals, Fertilizers, mixing only	-
2879	Chemicals And Allied Products, Agricultural Chemicals, Agricultural chemicals, nec	
2891	Chemicals And Allied Products, Miscellaneous Chemical Products, Adhesives and sealants	
2892	Chemicals And Allied Products, Miscellaneous Chemical Products, Explosives	
2893	Chemicals And Allied Products, Miscellaneous Chemical Products, Printing ink	-
2895 2899	Chemicals And Allied Products, Miscellaneous Chemical Products, Carbon black Chemicals And Allied Products, Miscellaneous Chemical Products, Chemical preparations, nec	<b> </b>
2900	Petroleum And Coal Products	<b></b>
2905	Petroleum And Coal Products	<b> </b>
2911	Petroleum And Coal Products, Petroleum Refining, Petroleum refining	
2915	Petroleum And Coal Products	
2929	Petroleum And Coal Products	L
2950	Petroleum And Coal Products	L
2951	Petroleum And Coal Products, Asphalt Paving and Roofing Materials, Asphalt paving mixtures and blocks	
2952 2992	Petroleum And Coal Products, Asphalt Paving and Roofing Materials, Asphalt felts and coatings Petroleum And Coal Products, Misc. Petroleum and Coal Products, Lubricating oils and greases	
2999	Petroleum And Coal Products, Misc. Petroleum and Coal Products, Petroleum and Coal products, nec	
3011	Rubber And Misc. Plastics Products, Tires and Inner Tubes, Tires and inner tubes	1
3021	Rubber And Misc. Plastics Products, Rubber and Plastics Footwear, Rubber and plastics footwear	
3031	Rubber And Misc. Plastic Products	Γ
3041	Rubber And Misc. Plastic Products	
3052	Rubber And Misc. Plastics Products, Hose & Belting & Gaskets & Packing, Rubber & plastics hose & belting	<b></b>
3053	Rubber And Misc. Plastics Products, Hose & Belting & Gaskets & Packing, Gaskets, packing & sealing devices Rubber And Misc. Plastics Products, Fabricated Rubber Products, Nec, Mechanical rubber goods	
3061 3069	Rubber And Misc. Plastics Products, Fabricated Rubber Products, Nec, Flechanical Tubber goods  Rubber And Misc. Plastics Products, Fabricated Rubber Products, Nec, Fabricated rubber products, nec	
3079	Miscellaneous Plastic Products	-
3081	Rubber And Misc. Plastics Products, Miscellaneous Plastics Products, Nec, Unsupported plastics film & sheet	1
3082	Rubber And Misc. Plastics Products, Miscellaneous Plastics Products, Nec, Unsupported plastics profile shapes	1 -
3083	Rubber And Misc. Plastics Products, Miscellaneous Plastics Products, Nec, Laminated plastics plate & sheet	I
	Rubber And Misc. Plastics Products, Miscellaneous Plastics Products, Nec, Plastics pipe	
	Rubber And Misc. Plastics Products, Miscellaneous Plastics Products, Nec, Plastics bottles	
3086	Rubber And Misc. Plastics Products, Miscellaneous Plastics Products, Nec, Plastics foam products  Rubber And Misc. Plastics Products, Miscellaneous Plastics Products, Nec, Custom compound purchased regins	<del> </del>
3087 3088	Rubber And Misc. Plastics Products, Miscellaneous Plastics Products, Nec, Custom compound purchased resins Rubber And Misc. Plastics Products, Miscellaneous Plastics Products, Nec, Plastics plumbing fixtures	
3089	Rubber And Misc. Plastics Products, Miscellaneous Plastics Products, Nec, Plastics products, nec	<del> </del> -
3098	Rubber And Misc. Plastic Products	<b></b>
3111	Leather And Leather Products, Leather Tanning and Finishing, Leather tanning and finishing	
3131	Leather And Leather Products, Footwear Cut Stock, Footwear cut stock	
3143	Leather And Leather Products, Footwear, except Rubber, Men's footwear, except athletic	
3144	Leather And Leather Products, Footwear, except Rubber, Women's footwear, except athletic	
3149	Leather And Leather Products, Footwear, except Rubber, Footwear, except rubber, nec	
3151 3161	Leather And Leather Products, Leather Gloves and Mittens, Leather gloves and mittens Leather And Leather Products, Luggage, Luggage	
3171	Leather And Leather Products, Edggage, Edggage Leather And Leather Products, Handbags and Personal Leather Goods, Women's handbags and purses	
	Leather And Leather Products, Handbags and Personal Leather Goods, Personal leather goods, nec	<b> </b>
3199	Leather And Leather Products, Leather Goods, Nec, Leather goods, nec	
3200	Stone, Clay, And Glass Products	Γ.
3211	Stone, Clay, And Glass Products, Flat Glass, Flat glass	
3212	Stone, Clay, And Glass Products	
7774		
3221 3229	Stone, Clay, And Glass Products, Glass and Glassware, Pressed Or Blown, Glass containers  Stone, Clay, And Glass Products, Glass and Glassware, Pressed Or Blown, Pressed and blown glass, nec	

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source Status

C=-		200 Nere
SIC	CIC Description	Area
<b>Code</b> 3241	SIC Description  Stone, Clay, And Glass Products, Cement, Hydraulic, Cement, hydraulic	Source?
,, ,	Stone, Clay, And Glass Products, Structural Clay Products, Brick and structural clay tile	
3253	Stone, Clay, And Glass Products, Structural Clay Products, Ceramic wall and floor tile	I
3255	Stone, Clay, And Glass Products, Structural Clay Products, Clay refractories	L
13 1	Stone, Clay, And Glass Products, Pottery and Related Products, Vitreous plumbing fixtures	L
3262	Stone, Clay, And Glass Products, Pottery and Related Products, Vitreous china table & kitchenware Stone, Clay, And Glass Products, Pottery and Related Products, Semivitreous table & kitchenware	ļ
	Stone, Clay, And Glass Products, Pottery and Related Products, Semivitreous table & Ritchenware Stone, Clay, And Glass Products, Pottery and Related Products, Porcelain electrical supplies	
	Stone, Clay, And Glass Products, Pottery and Related Products, Pottery products, nec	1
3271	Stone, Clay, And Glass Products, Concrete, Gypsum, and Plaster Products, Concrete block and brick	Γ
3272	Stone, Clay, And Glass Products, Concrete, Gypsum, and Plaster Products, Concrete products, nec	
: 1	Stone, Clay, And Glass Products, Concrete, Gypsum, and Plaster Products, Ready-mixed concrete	
	Stone, Clay, And Glass Products, Concrete, Gypsum, and Plaster Products, Lime Stone, Clay, And Glass Products, Concrete, Gypsum, and Plaster Products, Gypsum products	
	Stone, Clay, And Glass Products, Concrete, Gypsum, and Plaster Products, Gypsum products Stone, Clay, And Glass Products, Cut Stone and Stone Products, Cut Stone and Stone products	ţ
	Stone, Clay, And Glass Products, Misc. Nonmetallic Mineral Products, Abrasive products	L
3292	Stone, Clay, And Glass Products, Misc. Nonmetallic Mineral Products, Asbestos products	L
	Stone, Clay, And Glass Products	L
	Stone, Clay, And Glass Products, Misc. Nonmetallic Mineral Products, Minerals, ground or treated	
	Stone, Clay, And Glass Products, Misc. Nonmetallic Mineral Products, Mineral wool Stone, Clay, And Glass Products, Misc. Nonmetallic Mineral Products, Nonclay refractories	
3297	Stone, Clay, And Glass Products, Misc. Nonmetallic Mineral Products, Nonmetallic mineral products, nec	<b>-</b>
3312	Primary Metal Industries, Blast Furnace and Basic Steel Products, Blast furnaces and steel mills	[
3313	Primary Metal Industries, Blast Furnace and Basic Steel Products, Electrometallurgical products	Ľ Ì
3315	Primary Metal Industries, Blast Furnace and Basic Steel Products, Steel wire and related products	
3316	Primary Metal Industries, Blast Furnace and Basic Steel Products, Cold finishing of steel shapes	
	Primary Metal Industries, Blast Furnace and Basic Steel Products, Steel pipe and tubes Primary Metal Industries, Iron and Steel Foundries, Gray and ductile iron foundries	
	Primary Metal Industries, Iron and Steel Foundries, Malleable iron foundries	
3324	Primary Metal Industries, Iron and Steel Foundries, Steel investment foundries	
3325	Primary Metal Industries, Iron and Steel Foundries, Steel foundries, nec	L
1) +	Primary Metal Industries, Primary Nonferrous Metals, Primary copper	<b> </b>
	Primary Metal Industries	<b>-</b>
	Primary Metal Industries, Primary Nonferrous Metals, Primary aluminum Primary Metal Industries, Primary Nonferrous Metals, Primary nonferrous metals, nec	
	Primary Metal Industries, Secondary Nonferrous Metals, Secondary nonferrous metals	1
3351	Primary Metal Industries, Nonferrous Rolling and Drawing, Copper rolling & drawing	l. 1
3353	Primary Metal Industries, Nonferrous Rolling and Drawing, Aluminum sheet, plate, and foil	1
	Primary Metal Industries, Nonferrous Rolling and Drawing, Aluminum extruded products	<u> </u>
	Primary Metal Industries, Nonferrous Rolling and Drawing, Aluminum rolling & drawing, nec Primary Metal Industries, Nonferrous Rolling and Drawing, Nonferrous rolling & drawing, nec	ļ
	Primary Metal Industries, Nonferrous Rolling and Drawing, Nonferrous Volling & drawing, Nec Primary Metal Industries, Nonferrous Rolling and Drawing, Nonferrous wiredrawing & insulating	r · ·
	Primary Metal Industries	[ ]
3362	Primary Metal Industries	
11 1	Primary Metal Industries, Nonferrous Foundries (castings), Aluminum die-castings	( l
	Primary Metal Industries, Nonferrous Foundries (castings), Nonferrous die-casting exc. aluminum  Primary Metal Industries, Nonferrous Foundries (castings), Aluminum foundries	1
1 i	Primary Metal Industries, Nonferrous Foundries (castings), Aluminum foundries  Primary Metal Industries, Nonferrous Foundries (castings), Copper foundries	1 1
	Primary Metal Industries, Nonferrous Foundries (castings), Copper Foundries  Primary Metal Industries, Nonferrous Foundries (castings), Nonferrous foundries, nec	t 1
3398	Primary Metal Industries, Miscellaneous Primary Metal Products, Metal heat treating	[ ]
3399	Primary Metal Industries, Miscellaneous Primary Metal Products, Primary metal products, nec	
3411	Fabricated Metal Products, Metal Cans and Shipping Containers, Metal cans	L
	Fabricated Metal Products, Metal Cans and Shipping Containers, Metal barrels, drums, and pails	<b> </b>
	Fabricated Metal Products, Cutlery, Handtools, and Hardware, Cutlery Fabricated Metal Products, Cutlery, Handtools, and Hardware, Hand and edge tools, nec	ļI
	Fabricated Metal Products, Cutlery, Handtools, and Hardware, Saw blades and handsaws	
	Fabricated Metal Products, Cutlery, Handtools, and Hardware, Hardware, nec	
3431	Fabricated Metal Products, Plumbing and Heating, except Electric, Metal sanitary ware	
	Fabricated Metal Products, Plumbing and Heating, except Electric, Plumbing fixture fittings and trim	<b> </b>
1 1	Fabricated Metal Products, Plumbing and Heating, except Electric, Heating equipment, except electric Fabricated Metal Products, Fabricated Structural Metal Products, Fabricated structural metal	+ -
11 7	Fabricated Metal Products, Fabricated Structural Metal Products, Fabricated Structural Metal Products, Fabricated Structural Metal Products, Metal doors, sash, and trim	1 - 1
	Fabricated Metal Products, Fabricated Structural Metal Products, Fabricated plate work (boiler shops)	
3444	Fabricated Metal Products, Fabricated Structural Metal Products, Sheet metalwork	1 1
	Fabricated Metal Products, Fabricated Structural Metal Products, Architectural metal work	1 1
1	Fabricated Metal Products, Fabricated Structural Metal Products, Prefabricated metal buildings Fabricated Metal Products, Fabricated Structural Metal Products, Miscellaneous metal work	
1 1	Fabricated Metal Products, Fabricated Structural Metal Products, Miscellaneous metal Work Fabricated Metal Products, Screw Machine Products, Bolts, Etc., Screw machine products	<b>-</b>
1 2 124	p deficated field frouter, section field frouter, social etc., section field field frouter	1 l

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source Status

	が変更を表現を表現を表現しています。 マール・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー・マー・	100
SIC		Area
Code	SIC Description	Source?
3452	Fabricated Metal Products, Screw Machine Products, Bolts, Etc., Bolts, nuts, rivets, and washers	
3462	Fabricated Metal Products, Metal Forgings and Stampings, Iron and steel forgings	
3463	Fabricated Metal Products, Metal Forgings and Stampings, Nonferrous forgings	-
3465	Fabricated Metal Products, Metal Forgings and Stampings, Automotive stampings	
18	Fabricated Metal Products, Metal Forgings and Stampings, Crowns and closures	
	Fabricated Metal Products, Metal Forgings and Stampings, Metal stampings, nec	h
3471	Fabricated Metal Products, Metal Services, Nec, Plating and polishing Fabricated Metal Products, Metal Services, Nec, Metal coating and allied services	
3479 3482	Fabricated Metal Products, Ordnance and Accessories, Nec, Small arms ammunition	I
3483	Fabricated Metal Products, Ordnance and Accessories, Nec, Ammunition, exc. for small arms, nec	·
	Fabricated Metal Products, Ordnance and Accessories, Nec, Small arms	-
	Fabricated Metal Products, Ordnance and Accessories, Nec, Ordnance and accessories, nec	"
	Fabricated Metal Products, Misc. Fabricated Metal Products, Industrial valves	
11	Fabricated Metal Products, Misc. Fabricated Metal Products, Fluid power valves & hose fittings	
11	Fabricated Metal Products, Misc. Fabricated Metal Products, Steel springs, except wire	
3494	Fabricated Metal Products, Misc. Fabricated Metal Products, Valves & pipe fittings, nec	
	Fabricated Metal Products, Misc. Fabricated Metal Products, Wire springs	
3496	Fabricated Metal Products, Misc. Fabricated Metal Products, Misc. fabricated wire products	<b>]</b> .
3497	Fabricated Metal Products, Misc. Fabricated Metal Products, Metal foil & leaf	ļ
3498	Fabricated Metal Products, Misc. Fabricated Metal Products, Fabricated pipe & fittings	<b> </b> -
3499	Fabricated Metal Products, Misc. Fabricated Metal Products, Fabricated metal products, nec	
15	Industrial Machinery And Equipment	<u> </u>
3511	Industrial Machinery And Equipment, Engines and Turbines, Turbines and turbine generator sets	ļ
3519	Industrial Machinery And Equipment, Engines and Turbines, Internal combustion engines, nec	<u> </u>
	Industrial Machinery And Equipment, Farm and Garden Machinery, Farm machinery and equipment Industrial Machinery And Equipment, Farm and Garden Machinery, Lawn and garden equipment	
	Industrial Machinery And Equipment, Farm and Garden Machinery, Lawri and garden equipment  Industrial Machinery And Equipment, Construction and Related Machinery, Construction machinery	
	Industrial Machinery And Equipment, Construction and Related Machinery, Mining machinery	
	Industrial Machinery And Equipment, Construction and Related Machinery, Oil and gas field machinery	1 1
	Industrial Machinery And Equipment, Construction and Related Machinery, Elevators and moving stairways	
	Industrial Machinery And Equipment, Construction and Related Machinery, Conveyors and conveying equipment	
	Industrial Machinery And Equipment, Construction and Related Machinery, Hoists, cranes, and monorails	
	Industrial Machinery And Equipment, Construction and Related Machinery, Industrial trucks and tractors	
3541	Industrial Machinery And Equipment, Metalworking Machinery, Machine tools, metal cutting types	
3542	Industrial Machinery And Equipment, Metalworking Machinery, Machine tools, metal forming types	
3543	Industrial Machinery And Equipment, Metalworking Machinery, Industrial patterns	
11	Industrial Machinery And Equipment, Metalworking Machinery, Special dies, tools, jigs & fixtures	
3545	Industrial Machinery And Equipment, Metalworking Machinery, Machine tool accessories	
3	Industrial Machinery And Equipment, Metalworking Machinery, Power-driven handtools	-
51	Industrial Machinery And Equipment, Metalworking Machinery, Rolling mill machinery	
	Industrial Machinery And Equipment, Metalworking Machinery, Welding apparatus	
5.8	Industrial Machinery And Equipment, Metalworking Machinery, Metalworking machinery, nec Industrial Machinery And Equipment	
11	Industrial Machinery And Equipment, Special Industry Machinery, Textile machinery	ł
	Industrial Machinery And Equipment, Special Industry Machinery, Yeardie Machinery  Industrial Machinery And Equipment, Special Industry Machinery, Woodworking machinery	
	Industrial Machinery And Equipment, Special Industry Machinery, Paper industries machinery	
3555	Industrial Machinery And Equipment, Special Industry Machinery, Printing trades machinery	
3556	Industrial Machinery And Equipment, Special Industry Machinery, Food products machinery	1
3559	Industrial Machinery And Equipment, Special Industry Machinery, Special industry machinery, nec	
3561	Industrial Machinery And Equipment, General Industrial Machinery, Pumps and pumping equipment	
3562	Industrial Machinery And Equipment, General Industrial Machinery, Ball and roller bearings	
3563	Industrial Machinery And Equipment, General Industrial Machinery, Air and gas compressors	
3564	Industrial Machinery And Equipment, General Industrial Machinery, Blowers and fans	L
3565	Industrial Machinery And Equipment, General Industrial Machinery, Packaging machinery	<b>.</b>
3566	Industrial Machinery And Equipment, General Industrial Machinery, Speed changers, drives, and gears	
3567	Industrial Machinery And Equipment, General Industrial Machinery, Industrial furnaces and ovens	
3568	Industrial Machinery And Equipment, General Industrial Machinery, Power transmission equipment, nec	<u></u>
3569	Industrial Machinery And Equipment, General Industrial Machinery, General Industrial machinery, nec	
3571	Industrial Machinery And Equipment, Computer and Office Equipment, Electronic computers	ļ · ·
3572	Industrial Machinery And Equipment, Computer and Office Equipment, Computer storage devices	
3573 3574	Industrial Machinery And Equipment Industrial Machinery And Equipment	-
11	Industrial Machinery And Equipment, Computer and Office Equipment, Computer terminals	-
3577	Industrial Machinery And Equipment, Computer and Office Equipment, Computer peripheral equipment, nec	1
15	Industrial Machinery And Equipment, Computer and Office Equipment, Office machines, nec	1
3581	Industrial Machinery And Equipment, Refingeration and Service Machinery, Automatic vending machines	
	Industrial Machinery And Equipment, Refrigeration and Service Machinery, Commercial laundry equipment	
3585	Industrial Machinery And Equipment, Refrigeration and Service Machinery, Refrigeration and heating equipment	1

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source

SIC		Area
Code	SIC Description	Source?
	Industrial Machinery And Equipment, Refrigeration and Service Machinery, Measuring and dispensing pumps	ļ
3589	Industrial Machinery And Equipment, Refrigeration and Service Machinery, Service industry machinery, nec	<b></b>
3592	Industrial Machinery And Equipment, Industrial Machinery, Nec, Carburetors, pistons, rings, valves	
•	Industrial Machinery And Equipment, Industrial Machinery, Nec, Fluid power cylinders & actuators	
3594	Industrial Machinery And Equipment, Industrial Machinery, Nec, Fluid power pumps & motors	<u> </u>
	Industrial Machinery And Equipment, Industrial Machinery, Nec, Scales and balances, exc. laboratory	
3599	Industrial Machinery And Equipment, Industrial Machinery, Nec, Industrial machinery, nec	ļ:
3600	Electronic & Other Electric Equipment	
3612	Electronic & Other Electric Equipment, Electric Distribution Equipment, Transformers, except electronic	
3613	Electronic & Other Electric Equipment, Electric Distribution Equipment, Switchgear and switchboard apparatus	
	Electronic & Other Electric Equipment, Electrical Industrial Apparatus, Motors and generators	ļ
3622	Electronic & Other Electric Equipment	
3623	Electronic & Other Electric Equipment	
3624	Electronic & Other Electric Equipment, Electrical Industrial Apparatus, Carbon and graphite products	ļ
3625	Electronic & Other Electric Equipment, Electrical Industrial Apparatus, Relays and industrial controls	ł
3629	Electronic & Other Electric Equipment, Electrical Industrial Apparatus, Electrical industrial apparatus, nec	ŀ
3631	Electronic & Other Electric Equipment, Household Appliances, Household cooking equipment	
3632	Electronic & Other Electric Equipment, Household Appliances, Household refrigerators and freezers	
3633	Electronic & Other Electric Equipment, Household Appliances, Household laundry equipment	
3634	Electronic & Other Electric Equipment, Household Appliances, Electric housewares and fans	}
3635	Electronic & Other Electric Equipment, Household Appliances, Household vacuum cleaners	
3639 3641	Electronic & Other Electric Equipment, Household Appliances, Household appliances, nec	
3643	Electronic & Other Electric Equipment, Electric Lighting and Wiring Equipment, Electric lamps Electronic & Other Electric Equipment, Electric Lighting and Wiring Equipment, Current-carrying wiring devices	
	Electronic & Other Electric Equipment, Electric Lighting and Wiring Equipment, Current-Carrying Wiring devices Electronic & Other Electric Equipment, Electric Lighting and Wiring Equipment, Noncurrent-carrying wiring devices	
3645	Electronic & Other Electric Equipment, Electric Lighting and Wiring Equipment, Noncurrent-Carrying Wiring devices  Electronic & Other Electric Equipment, Electric Lighting and Wiring Equipment, Residential lighting fixtures	
3646	Electronic & Other Electric Equipment, Electric Lighting and Wiring Equipment, Residential lighting fixtures	
	Electronic & Other Electric Equipment, Electric Lighting and Wiring Equipment, Commercial lighting equipment  Electronic & Other Electric Equipment, Electric Lighting and Wiring Equipment, Vehicular lighting equipment	
3648	Electronic & Other Electric Equipment, Electric Lighting and Wiring Equipment, Venicular lighting equipment, nec	
	Electronic & Other Electric Equipment, Electric Eighting and Willing Equipment, Household audio and video equipment, Household Electronic & Other Electric Equipment, Household Audio and Video Equipment, Household audio and video equipment	l
	Electronic & Other Electric Equipment, Household Audio and Video Equipment, Proceeded records and tapes	Ī
	Electronic & Other Electric Equipment, Problemon Addio and Video Equipment, Proceeded records and tapes Electronic & Other Electric Equipment, Communications Equipment, Telephone and telegraph apparatus	ł
3662	Electronic & Other Electric Equipment	
	Electronic & Other Electric Equipment, Communications Equipment, Radio & TV communications equipment	
3669	Electronic & Other Electric Equipment, Communications Equipment, Communications equipment, nec	
3671	Electronic & Other Electric Equipment, Electronic Components and Accessories, Electron tubes	
3672	Electronic & Other Electric Equipment, Electronic Components and Accessories, Printed circuit boards	
3673	Electronic & Other Electric Equipment	
3674	Electronic & Other Electric Equipment, Electronic Components and Accessories, Semiconductors and related devices	L S
3675	Ejectronic & Other Ejectric Equipment, Ejectronic Components and Accessories, Ejectronic capacitors	į
	Electronic & Other Electric Equipment, Electronic Components and Accessories, Electronic resistors	
3677	Electronic & Other Electric Equipment, Electronic Components and Accessories, Electronic coils and transformers	
	Electronic & Other Electric Equipment, Electronic Components and Accessories, Electronic connectors	
3679	Electronic & Other Electric Equipment, Electronic Components and Accessories, Electronic components, nec	
3691	Electronic & Other Electric Equipment, Misc. Electrical Equipment & Supplies, Storage batteries	
3692	Electronic & Other Electric Equipment, Misc. Electrical Equipment & Supplies, Primary batteries, dry and wet	
3693	Electronic & Other Electric Equipment	
3694	Electronic & Other Electric Equipment, Misc. Electrical Equipment & Supplies, Engine electrical equipment	
3695	Electronic & Other Electric Equipment, Misc. Electrical Equipment & Supplies, Magnetic and optical recording media	
	Electronic & Other Electric Equipment, Misc. Electrical Equipment & Supplies, Electrical equipment & supplies, nec	
3711	Transportation Equipment, Motor Vehicles and Equipment, Motor vehicles and car bodies	l
3713	Transportation Equipment, Motor Vehicles and Equipment, Truck and bus bodies	
3714	Transportation Equipment, Motor Vehicles and Equipment, Motor vehicle parts and accessories	
3715	Transportation Equipment, Motor Vehicles and Equipment, Truck trailers	
3721	Transportation Equipment, Aircraft and Parts, Aircraft	
3724	Transportation Equipment, Aircraft and Parts, Aircraft engines and engine parts	
3728	Transportation Equipment, Aircraft and Parts, Aircraft parts and equipment, nec	1
3731	Transportation Equipment, Ship and Boat Building and Repairing, Ship building and repairing	L
3732	Transportation Equipment, Ship and Boat Building and Repairing, Boat building and repairing	
3743	Transportation Equipment, Railroad Equipment, Railroad equipment	
3751	Transportation Equipment, Motorcycles, Bicycles, and Parts, Motorcycles, bicycles, and parts	
3761	Transportation Equipment, Guided Missiles, Space Vehicles, Parts, Guided missiles and space vehicles	
3764	Transportation Equipment, Guided Missiles, Space Vehicles, Parts, Space propulsion units and parts	
3769	Transportation Equipment, Guided Missiles, Space Vehicles, Parts, Space vehicle equipment, nec	
3792	Transportation Equipment, Miscellaneous Transportation Equipment, Travel trailers and campers	
	Transportation Equipment, Miscellaneous Transportation Equipment, Tanks and tank components	
3799	Transportation Equipment, Miscellaneous Transportation Equipment, Transportation equipment, nec Instruments And Related Products	
3811		1

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source Status

SIC Code	SIC Description	Area Source?
3812	Instruments And Related Products, Search and Navigation Equipment, Search and navigation equipment	
3821	Instruments And Related Products, Measuring and Controlling Devices, Laboratory apparatus and furniture	
3822	Instruments And Related Products, Measuring and Controlling Devices, Environmental controls	
3823	Instruments And Related Products, Measuring and Controlling Devices, Process control instruments	L
3824	Instruments And Related Products, Measuring and Controlling Devices, Fluid meters and counting devices	
11	Instruments And Related Products, Measuring and Controlling Devices, Instruments to measure electricity	
3826 3827	Instruments And Related Products, Measuring and Controlling Devices, Analytical instruments Instruments And Related Products, Measuring and Controlling Devices, Optical instruments and lenses	<del> </del>
	Instruments And Related Products, Measuring and Controlling Devices, Measuring & controlling devices, nec	
3832	Instruments And Related Products	t · · · !
	Instruments And Related Products, Medical Instruments and Supplies, Surgical and medical instruments	-
3842	Instruments And Related Products, Medical Instruments and Supplies, Surgical appliances and supplies	
3843	Instruments And Related Products, Medical Instruments and Supplies, Dental equipment and supplies	
	Instruments And Related Products, Medical Instruments and Supplies, X-ray apparatus and tubes	
	Instruments And Related Products, Medical Instruments and Supplies, Electromedical equipment	
	Instruments And Related Products, Ophthalmic Goods, Ophthalmic goods	
	Instruments And Related Products, Photographic Equipment and Supplies, Photographic equipment and supplies Instruments And Related Products, Watches, Clocks, Watchcases & Parts, Watches, clocks, watchcases & parts	-
3873 3911	Miscellaneous Manufacturing Industries, Jewelry, Silverware, and Plated Ware, Jewelry, precious metal	
3914	Miscellaneous Manufacturing Industries, Jewelry, Silverware, and Plated Ware, Silverware and plated ware	1
3931	Miscellaneous Manufacturing Industries, Musical Instruments, Musical instruments	I
3942	Miscellaneous Manufacturing Industries, Toys and Sporting Goods, Dolls and stuffed toys	
3944	Miscellaneous Manufacturing Industries, Toys and Sporting Goods, Games, toys, and children's vehicles	
3949	Miscellaneous Manufacturing Industries, Toys and Sporting Goods, Sporting and athletic goods, nec	
3951	Miscellaneous Manufacturing Industries, Pens, Pencils, Office, & Art Supplies, Pens and mechanical pencils	-
3952	Miscellaneous Manufacturing Industries, Pens, Pencils, Office, & Art Supplies, Lead pencils and art goods	
3955 3961	Miscellaneous Manufacturing Industries, Pens, Pencils, Office, & Art Supplies, Carbon paper and inked ribbons Miscellaneous Manufacturing Industries, Costume Jewelry and Notions, Costume Jewelry	
3963	Miscellaneous Manufacturing Industries  Miscellaneous Manufacturing Industries	<u></u>
3965	Miscellaneous Manufacturing Industries, Costume Jewelry and Notions, Fasteners, buttons, needles, & pins	<del></del>
3991	Miscellaneous Manufacturing Industries, Miscellaneous Manufactures, Brooms and brushes	
3993	Miscellaneous Manufacturing Industries, Miscellaneous Manufactures, Signs and advertising specialities	
3995	Miscellaneous Manufacturing Industries, Miscellaneous Manufactures, Burial caskets	
3996	Miscellaneous Manufacturing Industries, Miscellaneous Manufactures, Hard surface floor coverings, nec	L
3999	Miscellaneous Manufacturing Industries, Miscellaneous Manufactures, Manufacturing industries, nec	L -,
4011	Railroad Transportation, Railroads, Railroads, line-haul operating	- X
4013	Railroad Transportation, Railroads, Switching and terminal services Local And Interurban Passenger Transit, Local and Suburban Transportation, Local and suburban transit	}- <u>-</u>
4173	Local And Interurban Passenger Transit, Eucar and Subdivan Transportation, Eucar and Subdivan dansit	
4212	Trucking And Warehousing, Trucking & Courier Services, Ex. Air, Local trucking, without storage	X
4213	Trucking And Warehousing, Trucking & Couner Services, Ex. Air, Trucking, except local	X
4214	Trucking And Warehousing, Trucking & Courier Services, Ex. Air, Local trucking with storage	X
4221	Trucking And Warehousing, Public Warehousing and Storage, Farm product warehousing and storage	X
4224	Trucking And Warehousing	X
4225	Trucking And Warehousing, Public Warehousing and Storage, General warehousing and storage	X
4226 4231	Trucking And Warehousing, Public Warehousing and Storage, Special warehousing and storage, nec Trucking And Warehousing, Trucking Terminal Facilities, Trucking terminal facilities	X
4311	U.S. Postal Service, U.S. Postal Service, U.S. Postal Service	Î
4449	Water Transportation, Water Transportation Of Freight, Nec, Water transportation of freight, nec	X
4463	Water Transportation	Х
4491	Water Transportation, Water Transportation Services, Marine cargo handling	X
4511	Transportation By Air	X.
4512	Transportation By Air, Air Transportation, Scheduled, Air transportation, scheduled	X
4522	Transportation By Air, Air Transportation, Nonscheduled, Air transportation, nonscheduled Transportation By Air, Airports, Flying Fields, & Services, Airports, flying fields, & services	├ <u>`</u> x
4581 4582	Transportation By Air, Airports, Flying Fields, & Services, Airports, flying fields, & services  Transportation By Air	- x
4612	Pipelines, Except Natural Gas, Pipelines, except Natural Gas, Crude petroleum pipelines	T''.
4613	Pipelines, Except Natural Gas, Pipelines, except Natural Gas, Refined petroleum pipelines	1 -
4741	Transportation Services, Rental Of Railroad Cars, Rental of railroad cars	X
4742	Transportation Services	X
4789	Transportation Services, Miscellaneous Transportation Services, Transportation services, nec	_ X
4800	Communication	X
4811	Communication  Communication Telephone Communication Telephone communications, every radio	X
4813 4822	Communication, Telephone Communication, Telephone communications, exc. radio   Communication, Telegraph & Other Communications, Telegraph & other communications	- x
4833	Communication, Radio and Television Broadcasting, Television broadcasting stations	1 x
	Communication, Communication Services, Nec, Communication services, nec	X
49	Electric, Gas, And Sanitary Services	I

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source Status

SIC Code	SIC Description	Area Source?
4900	Electric, Gas, And Sanitary Services	wareer
4901	Electric, Gas, And Sanitary Services	
491	Electric, Gas, And Sanitary Services, Electric Services	
4910	Electric, Gas, And Sanitary Services	ļ.
4911	Electric, Gas, And Sanitary Services, Electric Services, Electric services	
4922 4923	Electric, Gas, And Sanitary Services, Gas Production and Distribution, Natural gas transmission Electric, Gas, And Sanitary Services, Gas Production and Distribution, Gas transmission and distribution	
4924	Electric, Gas, And Sanitary Services, Gas Production and Distribution, Natural gas distribution	
4925	Electric, Gas, And Sanitary Services, Gas Production and Distribution, Gas production and/or distribution	
4931	Electric, Gas, And Sanitary Services, Combination Utility Services, Electric and other services combined	
4932	Electric, Gas, And Sanitary Services, Combination Utility Services, Gas and other services combined	
4939	Electric, Gas, And Sanitary Services, Combination Utility Services, Combination utilities, nec	
4941 4951	Electric, Gas, And Sanitary Services, Water Supply, Water supply	
4952	Electric, Gas, And Sanitary Services Electric, Gas, And Sanitary Services, Sanitary Services, Sewerage systems	
4953	Electric, Gas, And Sanitary Services, Sanitary Services, Refuse systems	
4959	Electric, Gas, And Sanitary Services, Sanitary Services, Sanitary services, nec	
4960	Electric, Gas, And Sanitary Services	
4961	Electric, Gas, And Sanitary Services, Steam and Air-conditioning Supply, Steam and air-conditioning supply	
5012	Wholesale TradeDurable Goods, Motor Vehicles, Parts, and Supplies, Automobiles and other motor vehicles	X
5013 5014	Wholesale TradeDurable Goods, Motor Vehicles, Parts, and Supplies, Motor vehicle supplies and new parts Wholesale TradeDurable Goods, Motor Vehicles, Parts, and Supplies, Tires and tubes	X X
5030	Wholesale TradeDurable Goods, Motor Vehicles, Farts, and Supplies, Tires and tubes  Wholesale TradeDurable Goods	x x
5031	Wholesale TradeDurable Goods, Lumber and Construction Materials, Lumber, plywood, and millwork	X
5032	Wholesale TradeDurable Goods, Lumber and Construction Materials, Brick, stone, & related materials	X
5039	Wholesale TradeDurable Goods, Lumber and Construction Materials, Construction materials, nec	Х
5045	Wholesale TradeDurable Goods, Professional & Commercial Equipment, Computers, peripherals & software	Х
5047 5051	Wholesale TradeDurable Goods, Professional & Commercial Equipment, Medical and hospital equipment Wholesale TradeDurable Goods, Metals and Minerals, except Petroleum, Metals service centers and offices	X
5052	Wholesale TradeDurable Goods, Metals and Minerals, except Petroleum, Coal and other minerals and ories	X
5063	Wholesale TradeDurable Goods, Electrical Goods, Electrical apparatus and equipment	X
5065	Wholesale TradeDurable Goods, Electrical Goods, Electronic parts and equipment	Χ
5072	Wholesale TradeDurable Goods, Hardware, Plumbing & Heating Equipment, Hardware	Χ
5074	Wholesale TradeDurable Goods, Hardware, Plumbing & Heating Equipment, Plumbing & hydronic heating supplie	
5082 5083	Wholesale TradeDurable Goods, Machinery, Equipment, and Supplies, Construction and mining machinery Wholesale TradeDurable Goods, Machinery, Equipment, and Supplies, Farm and garden machinery	X
5084	Wholesale Trade-Durable Goods, Machinery, Equipment, and Supplies, Industrial machinery and equipment	<del></del>
5085	Wholesale TradeDurable Goods, Machinery, Equipment, and Supplies, Industrial supplies  Wholesale TradeDurable Goods, Machinery, Equipment, and Supplies, Industrial supplies	<u>x</u>
5087	Wholesale TradeDurable Goods, Machinery, Equipment, and Supplies, Service establishment equipment	X
5088	Wholesale TradeDurable Goods, Machinery, Equipment, and Supplies, Transportation equipment & supplies	X
5091	Wholesale TradeDurable Goods, Miscellaneous Durable Goods, Sporting & recreational goods	. X
5092 5093	Wholesale TradeDurable Goods, Miscellaneous Durable Goods, Toys and hobby goods and supplies	X
5099	Wholesale TradeDurable Goods, Miscellaneous Durable Goods, Scrap and waste materials  Wholesale TradeDurable Goods, Miscellaneous Durable Goods, Durable goods, nec	x
	Wholesale Trade-Nondurable Goods, Paper and Paper Products, Printing and writing paper	<u>^</u>
	Wholesale TradeNondurable Goods, Paper and Paper Products, Industrial & personal service paper	X
	Wholesale TradeNondurable Goods, Drugs, Proprietaries, and Sundries, Drugs, proprietaries, and sundries	X
	Wholesale TradeNondurable Goods, Apparel, Piece Goods, and Notions, Men's and boys' clothing	X
	Wholesale TradeNondurable Goods, Apparel, Piece Goods, and Notions, Women's and children's clothing  Wholesale TradeNondurable Goods, Grocenes and Related Products, Grocenes, general line.	X
	Wholesale TradeNondurable Goods, Groceries and Related Products, Groceries, general line Wholesale TradeNondurable Goods, Groceries and Related Products, Dairy products, exc. dried or canned	x
1	Wholesale TradeNondurable Goods, Groceries and Related Products, Poultry and poultry products  Wholesale TradeNondurable Goods, Groceries and Related Products, Poultry and poultry products	x
•	Wholesale TradeNondurable Goods, Groceries and Related Products, Confectionery	X
	Wholesale TradeNondurable Goods, Groceries and Related Products, Meats and meat products	Х
	Wholesale Trade-Nondurable Goods, Groceries and Related Products, Groceries and related products, nec	X
	Wholesale TradeNondurable Goods, Farm-product Raw Materials, Grain and field beans Wholesale TradeNondurable Goods, Farm-product Raw Materials, Livestock	X
	Wholesale TradeNondurable Goods, Farm-product Raw Materials, Livestock Wholesale TradeDurable Goods	- · - 2·
3 I	Wholesale TradeNondurable Goods, Farm-product Raw Materials, Farm-product raw materials, nec	x
3 I	Wholesale TradeDurable Goods	X
	Wholesale TradeNondurable Goods, Chemicals and Allied Products, Plastics materials & basic shapes	X
<b>5</b> . (	Wholesale TradeNondurable Goods, Chemicals and Allied Products, Chemicals & allied products, nec	X
1	Wholesale TradeNondurable Goods, Petroleum and Petroleum Products, Petroleum bulk stations & terminals Wholesale TradeNondurable Goods, Petroleum and Petroleum Products, Petroleum products, nec	X X
1 _ 1	Wholesale TradeNondurable Goods, Beer, Wine, and Distilled Beverages, Beer and ale	· x
	Wholesale TradeNondurable Goods, Beer, Wine, and Distilled Beverages, Wine and distilled beverages	X
5191	Wholesale TradeNondurable Goods, Misc. Nondurable Goods, Farm supplies	X
5192	Wholesale TradeNondurable Goods, Misc. Nondurable Goods, Books, periodicals, & newspapers	X

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source Status

SIC		Area
Code	SIC Description	Source?
	Wholesale TradeNondurable Goods, Misc. Nondurable Goods, Flowers & florists' supplies	X
5198	Wholesale TradeNondurable Goods, Misc. Nondurable Goods, Paints, varnishes, and supplies	X
5199	Wholesale TradeNondurable Goods, Misc. Nondurable Goods, Nondurable goods, nec Building Materials & Garden Supplies, Lumber and Other Building Materials, Lumber and other building materials	- <del>^</del>
5211 5231	Building Materials & Garden Supplies, Paint, Glass, and Wallpaper Stores, Paint, glass, and wallpaper stores	$\frac{\hat{x}}{x}$
5243	Building Materials & Garden Supplies	X
5249	Building Materials & Garden Supplies	X
5253	Building Materials & Garden Supplies	X
5261	Building Materials & Garden Supplies, Retail Nurseries and Garden Stores, Retail nurseries and garden stores	X
5295	Building Materials & Garden Supplies	X
5311	General Merchandise Stores, Department Stores, Department stores General Merchandise Stores, Misc. General Merchandise Stores, Misc. general merchandise stores	- â·
5399 5411	Food Stores, Grocery Stores, Grocery stores	· ŝ
	Food Stores, Dairy Products Stores, Dairy products stores	X
	Food Stores, Retail Bakeries, Retail bakeries	X
5511	Automotive Dealers & Service Stations, New and Used Car Dealers, New and used car dealers	Х
5521	Automotive Dealers & Service Stations, Used Car Dealers, Used car dealers	X
5531	Automotive Dealers & Service Stations, Auto and Home Supply Stores, Auto and home supply stores	X
	Automotive Dealers & Service Stations, Gasoline Service Stations, Gasoline service stations	X
5699	Apparel And Accessory Stores, Misc. Apparel & Accessory Stores, Misc. apparel & accessory stores Furniture And Homefurnishings Stores, Furniture and Homefurnishings Stores, Furniture stores	x
5712 5812	Eating And Drinking Places, Eating and Drinking Places, Eating places	x
11	Eating And Drinking Places	X
11	Eating And Drinking Places	х
5961	Miscellaneous Retail, Nonstore Retailers, Catalog and mail-order houses	Х
	Miscellaneous Retail, Fuel Dealers, Fuel oil dealers	X
5989	Miscellaneous Retail, Fuel Dealers, Fuel dealers, nec	X .
	Miscellaneous Retail, Retail Stores, Nec, Florists	X
5999	Miscellaneous Retail, Retail Stores, Nec, Miscellaneous retail stores, nec Depository Institutions, Commercial Banks, National commercial banks	Î
6022	Depository Institutions, Commercial Banks, State commercial banks	x x
6023	Depository Institutions	Х
6025	Depository Institutions	X
6061	Depository Institutions, Credit Unions, Federal credit unions	X
6141	Nondepository Institutions, Personal Credit Institutions, Personal credit institutions	X
	Security And Commodity Brokers	X X
6289	Security And Commodity Brokers, Security and Commodity Services, Security & commodity services, nec Insurance Carriers, Life Insurance, Life insurance	<del> </del> _
6311	Insurance Carriers, Medical Service and Health Insurance, Accident and health insurance	$\frac{\hat{x}}{x}$
	Insurance Carriers, Medical Service and Health Insurance, Hospital and medical service plans	X
	Insurance Carriers, Fire, Marine, and Casualty Insurance, Fire, marine, and casualty insurance	X
6399	Insurance Carriers, Insurance Carriers, Nec, Insurance carriers, nec	X
6411	Insurance Agents, Brokers, & Service, Insurance Agents, Brokers, & Service, Insurance agents, brokers, & service	X
	Real Estate, Real Estate Operators and Lessors, Nonresidential building operators	- X
6513	Real Estate, Real Estate Operators and Lessors, Apartment building operators	<b>.</b>
6514 6519	Real Estate, Real Estate Operators and Lessors, Dwelling operators, exc. apartments Real Estate, Real Estate Operators and Lessors, Real property lessors, nec	ı â
6531	Real Estate, Real Estate Agents and Managers, Real estate agents and managers	l x
6719	Holding And Other Investment Offices, Holding Offices, Holding companies, nec	X
6732	Holding And Other Investment Offices, Trusts, Educational, religious, etc. trusts	X
7011	Hotels And Other Lodging Places, Hotels and Motels, Hotels and motels	X
7020	Hotels And Other Lodging Places	- X
7021	Hotels And Other Lodging Places, Rooming and Boarding Houses, Rooming and boarding houses	X X
7041 7210	Hotels And Other Lodging Places, Membership-Basis Organization Hotels, Membership-basis organization hotels Personal Services	x
7210	Personal Services, Laundry, Cleaning, & Garment Services, Power laundries, family & commercial	Î
7212	Personal Services, Laundry, Cleaning, & Garment Services, Garment pressing & cleaners' agents	Х
7213	Personal Services, Laundry, Cleaning, & Garment Services, Linen supply	X
7215	Personal Services, Laundry, Cleaning, & Garment Services, Coin-operated laundries and cleaning	X
7216		X
7218	Personal Services, Laundry, Cleaning, & Garment Services, Industrial launderers	X
7219 7261	Personal Services, Laundry, Cleaning, & Garment Services, Laundry and garment services, nec Personal Services, Funeral Service and Crematories, Funeral service and crematories	×
7313		<del> </del> <del>x</del> −
7334		x
	Business Services, Mailing, Reproduction, Stenographic, Commercial photography	X
7336	Business Services, Mailing, Reproduction, Stenographic, Commercial art and graphic design	_ X
7338	Business Services, Mailing, Reproduction, Stenographic, Secretarial & court reporting	l X

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source Status

SIC Code    T342   Business Services, Services to Buildings, Disinfecting & pest control services   Business Services, Services to Buildings, Building maintenance services, nec   Business Services, Computer and Data Processing Services, Computer programming services   Business Services, Computer and Data Processing Services, Data processing and preparation   Business Services, Computer and Data Processing Services, Information retrieval services   Business Services, Computer and Data Processing Services, Information retrieval services   Business Services, Computer and Data Processing Services, Information retrieval services   Business Services, Computer and Data Processing Services, Information retrieval services   Business Services, Miscellaneous Business Services, Computer related services, nec   Business Services, Miscellaneous Business Services, Photofinishing laboratories   Business Services, Miscellaneous Business Services, Business services, nec   Business Services   Business Services	r	Area   Source   X   X   X   X   X   X   X   X   X
Business Services, Services to Buildings, Disinfecting & pest control services Business Services, Services to Buildings, Building maintenance services, nec Business Services, Computer and Data Processing Services, Computer programming services Business Services, Computer and Data Processing Services, Data processing and preparation Business Services, Computer and Data Processing Services, Information retrieval services Business Services, Computer and Data Processing Services, Computer related services Business Services, Computer and Data Processing Services, Computer related services Business Services, Miscellaneous Business Services, Computer related services, nec Business Services, Miscellaneous Business Services, Photofinishing laboratories Business Services, Miscellaneous Business Services, Business services, nec Business Services Auto Repair, Services, And Parking, Automotive Repair Shops, Top & body repair & paint shops Auto Repair, Services, And Parking, Automotive Repair Shops, Tire retreading and repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Electrical Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Nepair services, nec Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X
Business Services, Services to Buildings, Building maintenance services, nec Business Services, Computer and Data Processing Services, Computer programming services Business Services, Computer and Data Processing Services, Data processing and preparation Business Services, Computer and Data Processing Services, Information retrieval services Business Services, Computer and Data Processing Services, Computer related services Business Services, Computer and Data Processing Services, Computer related services, nec Business Services, Miscellaneous Business Services, Photofinishing laboratories Business Services, Miscellaneous Business Services, Business services, nec Business Services Business Services Business Services Business Services Auto Repair, Services, And Parking, Automotive Repair Shops, Top & body repair & paint shops Auto Repair, Services, And Parking, Automotive Repair Shops, Tire retreading and repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X X X X X X X X X X X X X X X X X X X
Business Services, Computer and Data Processing Services, Computer programming services Business Services, Computer and Data Processing Services, Data processing and preparation Business Services, Computer and Data Processing Services, Information retrieval services Business Services, Computer and Data Processing Services, Computer related services, Business Services, Computer and Data Processing Services, Computer related services, Business Services, Miscellaneous Business Services, Computer related services, nec Business Services, Miscellaneous Business Services, Photofinishing laboratories Business Services, Miscellaneous Business Services, Business services, nec Business Services Business Services Business Services Business Services Business Services Business Services Business Services, And Parking, Automotive Repair Shops, Top & body repair & paint shops Auto Repair, Services, And Parking, Automotive Repair Shops, Tire retreading and repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X X X X X X X X X X X X X X X X X X X
Business Services, Computer and Data Processing Services, Data processing and preparation Business Services, Computer and Data Processing Services, Information retrieval services Business Services, Computer and Data Processing Services, Computer related services, nec Business Services, Miscellaneous Business Services, Photofinishing laboratories Business Services, Miscellaneous Business Services, Business services, nec Business Services Business Services Business Services, Miscellaneous Business Services, Business services, nec Business Services Business Services Business Services, Miscellaneous Business Services, Business services, nec Business Services Business Services, Miscellaneous Business Services, Business services, nec Business Services Business Services, Miscellaneous Business Services, Business services, nec Business Services, Miscellaneous Repair Shops, Top & body repair & paint shops Auto Repair, Services, And Parking, Automotive Repair Shops, Tire retreading and repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X   X   X   X   X   X   X   X   X   X
Business Services, Computer and Data Processing Services, Information retrieval services 7379 7384 8usiness Services, Computer and Data Processing Services, Computer related services, nec 8usiness Services, Miscellaneous Business Services, Photofinishing laboratories 8usiness Services, Miscellaneous Business Services, Business services, nec 8usiness Services  Miscellaneous Business Services, Business services, nec 8usiness Services 8usiness Services 8usiness Services, nec 8usiness Services, Miscellaneous Business Services, Business services, nec 8usiness Services 8usiness Services, nec 8usiness Services, Miscellaneous Repair Services, And Parking, Automotive Repair Shops, Top & body repair & paint shops 7532 Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops 7538 7539 7540 Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec 7541 Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes 7542 7543 Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec 7544 7544 Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair 7545 Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair 7540 Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair 7541 Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops 7542 Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec 7544 Motion Pictures, Motion Picture Production & Services, Motion picture & video production 7545 Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X X X X X X X X X X X X X X X X X X X
Business Services, Computer and Data Processing Services, Computer related services, nec Business Services, Miscellaneous Business Services, Photofinishing laboratories Business Services, Miscellaneous Business Services, Business services, nec Business Services Business Services Business Services Business Services Auto Repair, Services, And Parking, Automotive Repair Shops, Top & body repair & paint shops Auto Repair, Services, And Parking, Automotive Repair Shops, Tire retreading and repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and furniture repair Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures		X   X   X   X   X   X   X   X   X   X
8 Business Services, Miscellaneous Business Services, Photofinishing laboratories 8 Business Services, Miscellaneous Business Services, Business services, nec 8 Business Services 8 Pools 9 Repair Services, And Parking, Automotive Repair Shops, Ceneral automotive repair shops 9 Auto Repair Services, And Parking, Automotive Repair Shops, Refrigeration service and repair Parking 9 Auto Repair, Services, Electrical Repair Shops, Refrigeration service and repair 9 Auto Repair Services, Electrical Repair Shops, Refrigeration service and repair 9 Auto Repair Services, Electrical Repair Shops, Refrigeration service and repair 9 Auto Repair Services, Electrical Repair Shops, Refrigeration service and repair 9 Auto Repair Services, Electrical Rep	r	X
Business Services, Miscellaneous Business Services, Business services, nec Business Services Business Services Business Services Auto Repair, Services, And Parking, Automotive Repair Shops, Top & body repair & paint shops Auto Repair, Services, And Parking, Automotive Repair Shops, Tire retreading and repair shops Auto Repair Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Electrical Repair Shops, Electrical repair shops, nec Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	F	X   X   X   X   X   X   X   X   X   X
Business Services Business Services Auto Repair, Services, And Parking, Automotive Repair Shops, Top & body repair & paint shops Auto Repair, Services, And Parking, Automotive Repair Shops, Tire retreading and repair shops Auto Repair Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	F	X X X X X X X X X X X X X
Business Services Auto Repair, Services, And Parking, Automotive Repair Shops, Top & body repair & paint shops Auto Repair, Services, And Parking, Automotive Repair Shops, Tire retreading and repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Motion picture & video production Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X X X X X X X X
Auto Repair, Services, And Parking, Automotive Repair Shops, Top & body repair & paint shops Auto Repair, Services, And Parking, Automotive Repair Shops, Tire retreading and repair shops Auto Repair Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Motion picture & video production Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X X X X X X X X
Auto Repair, Services, And Parking, Automotive Repair Shops, Tire retreading and repair shops Auto Repair Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X X X X X X X
Auto Repair Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Electrical Repair Shops, Electrical repair shops, nec Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Motion picture & video production Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X X X X X X X
Auto Repair, Services, And Parking, Automotive Repair Shops, General automotive repair shops Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Electrical Repair Shops, Electrical repair shops, nec Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X X X X X X
Auto Repair, Services, And Parking, Automotive Repair Shops, Automotive repair shops, nec Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Electrical Repair Shops, Electrical repair shops, nec Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X X X X X
Auto Repair, Services, And Parking, Automotive Services, except Repair, Carwashes Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Electrical Repair Shops, Electrical repair shops, nec Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Motion picture & video production Motion Pictures, Motion Picture Production & Services allied to motion pictures	r	X X X X
Auto Repair, Services, And Parking, Automotive Services, except Repair, Automotive services, nec Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Electrical Repair Shops, Electrical repair shops, nec Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Motion picture & video production Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X X X X
Miscellaneous Repair Services, Electrical Repair Shops, Refrigeration service and repair Miscellaneous Repair Services, Electrical Repair Shops, Electrical repair shops, nec Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec Motion Pictures, Motion Picture Production & Services, Motion picture & video production Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	r	X X X
<ul> <li>Miscellaneous Repair Services, Electrical Repair Shops, Electrical repair shops, nec</li> <li>Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair</li> <li>Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair</li> <li>Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops</li> <li>Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec</li> <li>Motion Pictures, Motion Picture Production &amp; Services, Motion picture &amp; video production</li> <li>Motion Pictures, Motion Picture Production &amp; Services, Services allied to motion pictures</li> </ul>	r	X X X
7641 Miscellaneous Repair Services, Reupholstery and Furniture Repair, Reupholstery and furniture repair 7692 Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair 7694 Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops 7699 Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec 7690 Motion Pictures, Motion Picture Production & Services, Motion picture & video production 7691 Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures	· · · · · · · · · · · · · · · · · · ·	X
7692 Miscellaneous Repair Services, Miscellaneous Repair Shops, Welding repair 7694 Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops 7699 Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec 7812 Motion Pictures, Motion Picture Production & Services, Motion picture & video production 7819 Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures		X.
7694 Miscellaneous Repair Services, Miscellaneous Repair Shops, Armature rewinding shops 7699 Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec 7812 Motion Pictures, Motion Picture Production & Services, Motion picture & video production 7819 Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures		
7699 Miscellaneous Repair Services, Miscellaneous Repair Shops, Repair services, nec 7812 Motion Pictures, Motion Picture Production & Services, Motion picture & video production 7819 Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures		1 Y
7812 Motion Pictures, Motion Picture Production & Services, Motion picture & video production 7819 Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures		
7819 Motion Pictures, Motion Picture Production & Services, Services allied to motion pictures		X
		_ X
15 - (		Х
7821   Motion Pictures		X
7929 Amusement & Recreation Services, Producers, Orchestras, Entertainers, Entertainers & entertainme	ent groups	X
7948 Amusement & Recreation Services, Commercial Sports, Racing, including track operation		X
7991 Amusement & Recreation Services, Misc. Amusement, Recreation Services, Physical fitness facilities	,	_ X
7992 Amusement & Recreation Services, Misc. Amusement, Recreation Services, Public golf courses		X
7996 Amusement & Recreation Services, Misc. Amusement, Recreation Services, Amusement parks		X
7997 Amusement & Recreation Services, Misc. Amusement, Recreation Services, Membership sports & re	creation clubs	X
7999 Amusement & Recreation Services, Misc. Amusement, Recreation Services, Amusement and recreat	tion, nec	X
80 Health Services	*****	X
8000 Health Services	-	X
8011 Health Services, Offices & Clinics Of Medical Doctors, Offices & clinics of medical doctors		X
8051 Health Services, Nursing and Personal Care Facilities, Skilled nursing care facilities		X
8052 Health Services, Nursing and Personal Care Facilities, Intermediate care facilities		X
8059 Health Services, Nursing and Personal Care Facilities, Nursing and personal care, nec		X
806 Health Services, Hospitals		X
8061 Health Services		$\frac{1}{x}$
1		X
		X
8063 Health Services, Hospitals, Psychiatric hospitals		X
8069 Health Services, Hospitals, Specialty hospitals exc. psychiatric		│ Â
8071 Health Services, Medical and Dental Laboratories, Medical laboratories		<b>├</b> •
8081 Health Services		<u> </u>
8082 Health Services, Home Health Care Services, Home health care services		
8091 Health Services	-	X
8092 Health Services, Health and Allied Services, Nec, Kidney dialysis centers		F - X
8099 Health Services, Health and Allied Services, Nec, Health and allied services, nec		X
8200 Educational Services	-	X
8211 Educational Services, Elementary and Secondary Schools, Elementary and secondary schools		- X
8220 Educational Services	,	X.
8221 Educational Services, Colleges and Universities, Colleges and universities		X
8222 Educational Services, Colleges and Universities, Junior colleges		X
8231 Educational Services, Libraries, Libraries		X
8232 Educational Services	-	X
8249 Educational Services, Vocational Schools, Vocational schools, nec		X
8299 Educational Services, Schools & Educational Services, Nec, Schools & educational services, nec		_ X
8300 Social Services		X
8322 Social Services, Individual and Family Services, Individual and family services		X
8331 Social Services, Job Training and Related Services, Job training and related services		Х
8351 Social Services, Child Day Care Services, Child day care services		X
8361   Social Services, Residential Care, Residential care		X
8399 Social Services, Social Services, Nec, Social services, nec		X
8412 Museums, Botanical, Zoological Gardens, Museums and Art Galleries, Museums and art galleries		X
8422 Museums, Botanical, Zoological Gardens, Botanical and Zoological Gardens, Botanical and zoologica	l gardens	X
8611 Membership Organizations, Business Associations, Business associations		X

Appendix A. Summary of SIC Codes in the Boiler Inventory and Survey Databases with Indication of Area Source Status

27.0		STANCE.
SIC	SIC Description	Area
Code		Source
8621	Membership Organizations, Professional Organizations, Professional organizations	X
8641	Membership Organizations, Civic and Social Associations, Civic and social associations	X
8661	Membership Organizations, Religious Organizations, Religious organizations	X
8699	Membership Organizations, Membership Organizations, Nec, Membership organizations, nec	X
8711	Engineering & Management Services, Engineering & Architectural Services, Engineering services	X
8731	Engineering & Management Services, Research and Testing Services, Commercial physical research	X
8732	Engineering & Management Services, Research and Testing Services, Commercial nonphysical research	X
8733	Engineering & Management Services, Research and Testing Services, Moncommercial research organizations	Х
8734	Engineering & Management Services, Research and Testing Services, Testing laboratories	X
	Engineering & Management Services, Management and Public Relations, Management services	X
8744	Engineering & Management Services, Management and Public Relations, Facilities support services	X
8748	Engineering & Management Services, Management and Public Relations, Business consulting, nec	X
	Private Households, Private Households, Private households	X
11	Services, Nec, Services, Nec	_X
13	Services, Nec, Services, Nec	X
11	Services, Nec, Services, Nec	X
	Services, Nec, Services, Nec	X
	Services, Nec, Services, Nec, Services, nec	Х
	Executive, Legislative, And General, Executive Offices, Executive offices	X
	Executive, Legislative, And General, Legislative Bodies, Legislative bodies	Х
9131	Executive, Legislative, And General, Executive and Legislative Combined, Executive and legislative combined	Х
9199	Executive, Legislative, And General, General Government, Nec, General government, nec	X
9211	Justice, Public Order, And Safety, Courts, Courts	X
9221	Justice, Public Order, And Safety, Public Order and Safety, Police protection	_x _x _x
9223	Justice, Public Order, And Safety, Public Order and Safety, Correctional Institutions	X
9229	Justice, Public Order, And Safety, Public Order and Safety, Public order and safety, nec	X
9311	Finance, Taxation, & Monetary Policy, Finance, Taxation, & Monetary Policy, Finance, taxation, & monetary policy	X
	Administration Of Human Resources, Admin. Of Public Health Programs, Admin. of public health programs	X
	Administration Of Human Resources, Administration Of Veterans' Affairs, Administration of veterans' affairs	X
	Environmental Quality And Housing, Environmental Quality, Air, water, & solid waste management	Х
9512	Environmental Quality And Housing, Environmental Quality, Land, mineral, wildlife conservation	X
	Environmental Quality And Housing, Housing and Urban Development, Housing programs	Х
9532	Environmental Quality And Housing, Housing and Urban Development, Urban and community development	Х
9611	Administration Of Economic Programs, Admin. Of General Economic Programs, Admin. of general economic progra	
9621	Administration Of Economic Programs, Regulation, Admin. Of Transportation, Regulation, admin. of transportation	
9631	Administration Of Economic Programs, Regulation, Admin. Of Utilities, Regulation, admin. of utilities	X
	Administration Of Economic Programs, Space Research and Technology, Space research and technology	X X X
9700	National Security And Intl. Affairs	Х
9711	National Security And Intl. Affairs, National Security, National security	X
9999	Nonclassifiable Establishments, Nonclassifiable Establishments, Nonclassifiable establishments	

# Appendix B

# 1994 DOE Manufacturing Fuel Consumption Report, Table A9

(No electronic copy. Hardcopy is included in docket copies)

Table A9. Total Inputs of Energy for Heat, Power, and Electricity Generation by Fuel Type, Census Region, and End Use, 1994: Part 2 (Estimates in Trillion Btu)

End-Use Calegories	Total	Net Secrety*		Distillate Fuel Oil and Disset Fuel	Netural Gas*	<b>്</b>	Cost (excluding Cost Cotte and Breeze)	Other	RSE Row Factor
				Total Unit	ri Shire				
RSE Column Factors:	. NE	0.5	1.3		0.8	1.2	1.2	. NF	
TOTAL INPUTS	16.515		441			95	_	5.828	3 2
	10,010						,,,,,		
Indirect Uses-Botler Fuel	-	28	313	_	2,396	15			4
Mirect Uses-Total Process	-	2,075	106		2,872	54		-	3
Process Heating	-	284	103	29	2,702	49		-	
Process Cooling and Reingerston	-	138	_		21	2		-	17
Mechane Orive	-	1,367	3	18	95	3	_	-	7
Electro-Chemical Processes		271		_		-		-	1
Other Process Use	-	15		4	23	1		-	16
Olirect Uses-Total Nonprocess	-	457	14	-	726	25	-	-	5
Facility Heating, Ventilation, and Air Conditioning*	-	217	5	7	351	5	_	-	6
Facility Lighting	-	185	-		-	-		_	1
Facility Support	-	46	3		30	1		-	12
Orisite Transportation	-	4	-		1	19			3
Conventional Electricity Generation	-	-	5		335	1	-	-	8
Other Nonprocess Use	-	4	1	2	9	•	0	-	18
End Use Not Reported	6,106	96	q	9	148	4	13	5.828	8
		·		Northeast Car			<u></u>		
	NE	0.5					1.4	NE	
RSE Column Factors:			1.0		0.8	1.4			
TOTALINPUTS	1,625	321	153	41	517	18	130	446	
indirect Uses-Boiler Fuel	-	2	119	15	174	2	95	-	8
Direct Uses-Total Process	-	236	25	13	250	11	31	_	6
Process Heating	_	43	24	. 9	240	10	31	-	7
Process Cooling and Refrigeration		16	-	•	1	•	•	-	24
Machine Drive	-	151	1	3	8	•	0		14
Electro-Chemical Processes	_	24	-		_	-		_	1
Other Process Use	_	2	•		3	•	o.	-	19
Direct Uses-Total Nonprocess	-	. 69	7	11	74	4		_	9
Facility Heating, Ventilation, and Air Conditioning			3		57	1		_	8
Facility Lighting	_	29	-	_	<b>J.</b>	· -		_	1
	_	_	w		4	•	0	_	
Facility Support	-	1	**		:	3	-	-	16
Onste Transportation	-	-	-	4		_		-	5
Conventional Electricity Generation	-		W		12	W		-	13
Other Nonprocess Use	-	. 1	1	•	·	W	0		30
End Use Not Reported	457	487 14 2 <u>3 18 1</u> <u>3</u>							15
	Midwest Census Region								
RSE Column Factors:	NE	0.5	1.3	1.5	0.7	1.2	1.1	NF	
TOTAL INPUTS	4,303	811	75	. 2	1,635	19	407	1,332	: :
Ingirect Uses-Bovier Fuel	-	. 8	53	4	517	2	323	-	7
Direct Uses-Total Process		536	22	. 7	854	7	77		6
					813	Ġ		_	
Process Cooling and Refrigeration	-			_	1	0		_	19
			W	2	16	1		_	
Machine Drive	-	_		_	· <del>-</del>			-	13
Electro-Chemical Processes	-			-	74	-		-	1
Other Process Use	-	-		2	24		v	-	18
Direct Uses-Total Hongracess	-	-			211	9		-	
	-		W	1	187	2		-	12
Feofity Heesing, Ventilation, and Air Conditioning	-46	. 61	_	-	-	-		-	1
Fecility Lighting			-	_					
Facility Lighting Facility Support	-			•	12			-	
Fecility Lighting Fecility Support Oneste Transportation	-	. 2	-	•	•	7	-	-	6
Fecility Lighting Fecility Support Oneste Transportation Conventional Electricity Generation	-	2	-	•	8	7 W	w	=	16 6
Fecility Lighting Fecility Support Oneste Transportation	-	. 2	-	-	•	7	w	= =	5

See footnoies at end of table.

Total Inputs of Energy for Heat, Power, and Electricity Generation by Fuel Type, Table A9. Census Region, and End Use, 1994: Part 2 (Continued) (Estimates in Trillion Btu)

End-Use Categories	Total	Net Eschely	Remotuel Fuel Oil	Circlina Fuel Cil and Disset Fuel		. ~~	Coel (excluding Coel Coke and	2m-4	RSE Row
Citivalisa Catagorias	,,		- C-	South Can		LPG	Greaze)	Other*	Factors
RSE Column Factoris:	NE	0.5	1.3	1.5	0.8	1.2	1.2	NF	
TOTAL INPUTS	8,357	1,135	176	5 55	3,271	26	530	3,164	3
Indirect Uses-Boiler Fuel	-	12	121	19	1,419	3	407	-	5.
Olrect Uses-Total Process		901	44	i 19	1,447	13	115	-	5.
Process Hesting		106	45	10	1,345	11	W	-	5.
Process Cooling and Retrigeration	-	68	•	•	17	W	0	_	17
Mechine Drive	-	810	1	8	64	w	W	_	13.
Electro-Chemical Processes	_	113	_		-	-	-		1.
Other Process Use	-	4			22	•	•		20
Direct Uses-Total Hongrocess	-	179	a	15.	353	8	5	-	a
Facility Heating, Ventilation, and Air Conditioning *	_	33	W		72	_	_	_	9.
Facility Lighting	_	66	-			-	-	_	1.
Facility Support	_	17	w		7	w	0	_	12
Onsite Transportation	_	1	-	12		6	_	_	4.
Conventional Electricity Generation	_		W	_	259	w	3	_	9.
Other Nonprocess Use	_	1	**		293	".	3	_	22.
End Use Not Reported	3.209	43	2		-	2		3.164	
•	West Census Region							3,,,,,,	•
RSE Column Factors:	NF	0.8	0.9	1.8	0.9	1.1	1,1	NF	
TOTALINPUTS	2,230	389	38	32	719	37	131	886	3 4.
Indirect Uses-Boiler Fuel	-	. 8	20	5	286	8	50		9.
Direct Uses-Total Process	_	302	12	13	320	24	80	-	8.
Process Heating	-	36	W	6	305	21	w	-	7.
Process Cooling and Refrigeration	-	18	a	•	2	W	0	_	12
Machine Crive	-	152	w	S	9	w	w		9.
Electro-Chemical Processes	_	83		-	-	-	_		1.
Other Process Use	-	3	•	a	5	•	a	-	27
Direct Uses-Total Nonprocess	-	68	w		89	4	w	_	8.
Facility Heating, Venolation, and Air Conditioning *	_	31	W	a	35		W	_	16.
Facility Lighting	-	29	-	_		_	-	_	1.
Facility Support	_	7	W	_	6	w	0	_	17.
Onsite Transportation	_	1	-	9	•	3	_	_	5.
Conventional Electricity Generation	_	•	a	_	45	w	w	_	8.
Other Nonprocess Use	-	•	a	_	2	W	Ö	_	23.
End Use Not Reported	930	13	w	2	24	1	w	886	15.

<sup>&</sup>quot;'Net Electricity' is obtained by summing purchases, transfers in, and generation from inoncombusible runs rable resources, minus quantities sold and transferred out. It does not include electricity inputs from oneils appenentation for generation from combustible luest because that energy has already been included as generating fuel (for example, coel).

<sup>\*</sup>Includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 dissel fuels.
\*Theture Gas" includes returning as obtained from utilities, local distribution companies, and any other supplier(s), such as producers, brokers, and menterers.
\*"Other" includes not steem (the sum of purchases, generation from renewables, and not transfers) and other energy that respondents indicated was used to produce heat and gower.

<sup>\*</sup>Excludes steem and hot weter.

Mo applicable RSE rowicolumn factor.

<sup>&</sup>quot;Estimate was then 0.5.

Withheld to avoid discissing data for individual establishments.

O=Withheld because Relative Standard Error is greater then 50 percent.

MARMOL available.

<sup>-</sup> Estimation of energy moust is not applicable.

Meters: - To occur the RSE percentage for any table call, multiply the cells convergencing RSE column and RSE row factors. - Totals may not equal sum of components Retact: • To obtain the RSE percentage for any time cast, manager are corresponding RSE consumption of energy for the production of heat and power, regardless of where the third year produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, shall these that were produced oriests from other energy or input measures not classified as energy, or were extracted from captive (oneste) mines or wells. • Allocations to tiffs and uses are made on the basis of real maky respon

Source: Energy Information Administration, Office of Energy Manuals and End Use, Energy End Use and Integrated Statistics Diversin, Form EIA-846, "1984 Manualscaling